AMERICAN BUILDER

APRIL 1954 TWO DOLLARS

1954 CATALOG DIRECTORY

For The Light Construction Industry

INFORMATION FILE
A-Z

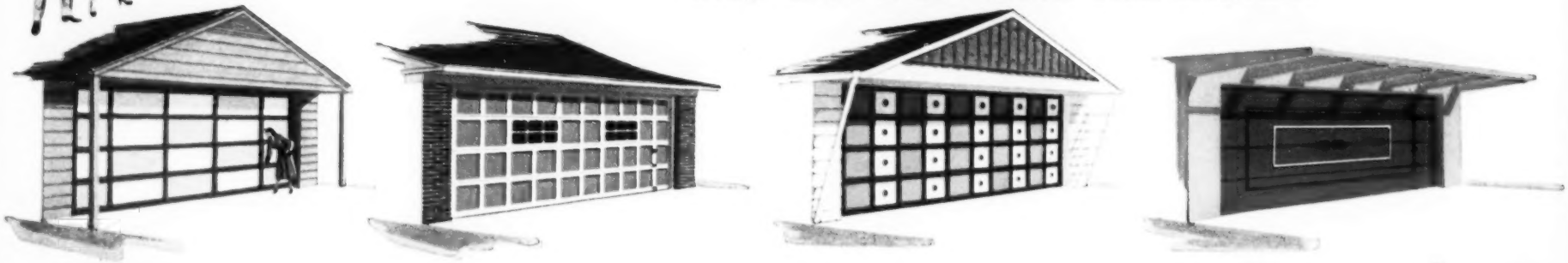
PRODUCTS . . . . who makes them

BRAND NAMES . . . . whose they are

DISTRIBUTORS . . . . how to find them

REFERENCE DATA . . for the first time, a comprehensive digest of publications on all phases of home building

Stop the "Shoppers" with the BIG, DRAMATIC FEATURE they CAN SEE FROM THE STREET



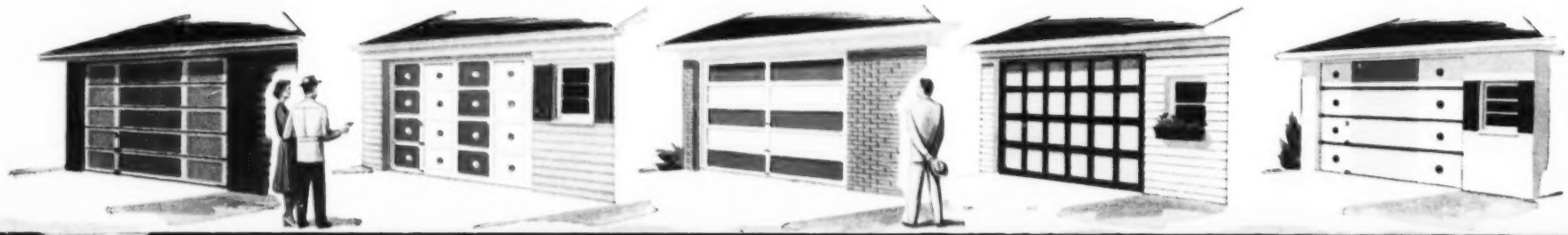
CRAWFORD GARAGE DOORS with CUSTOMIZED DESIGN is one big, dramatic feature that they CAN SEE FROM THE STREET.

It's what you need when prospects are cruising around, "shopping" from their cars, not getting too excited about *anything*—until they see these stunning CRAWFORD GARAGE DOORS with CUSTOMIZED DESIGN.

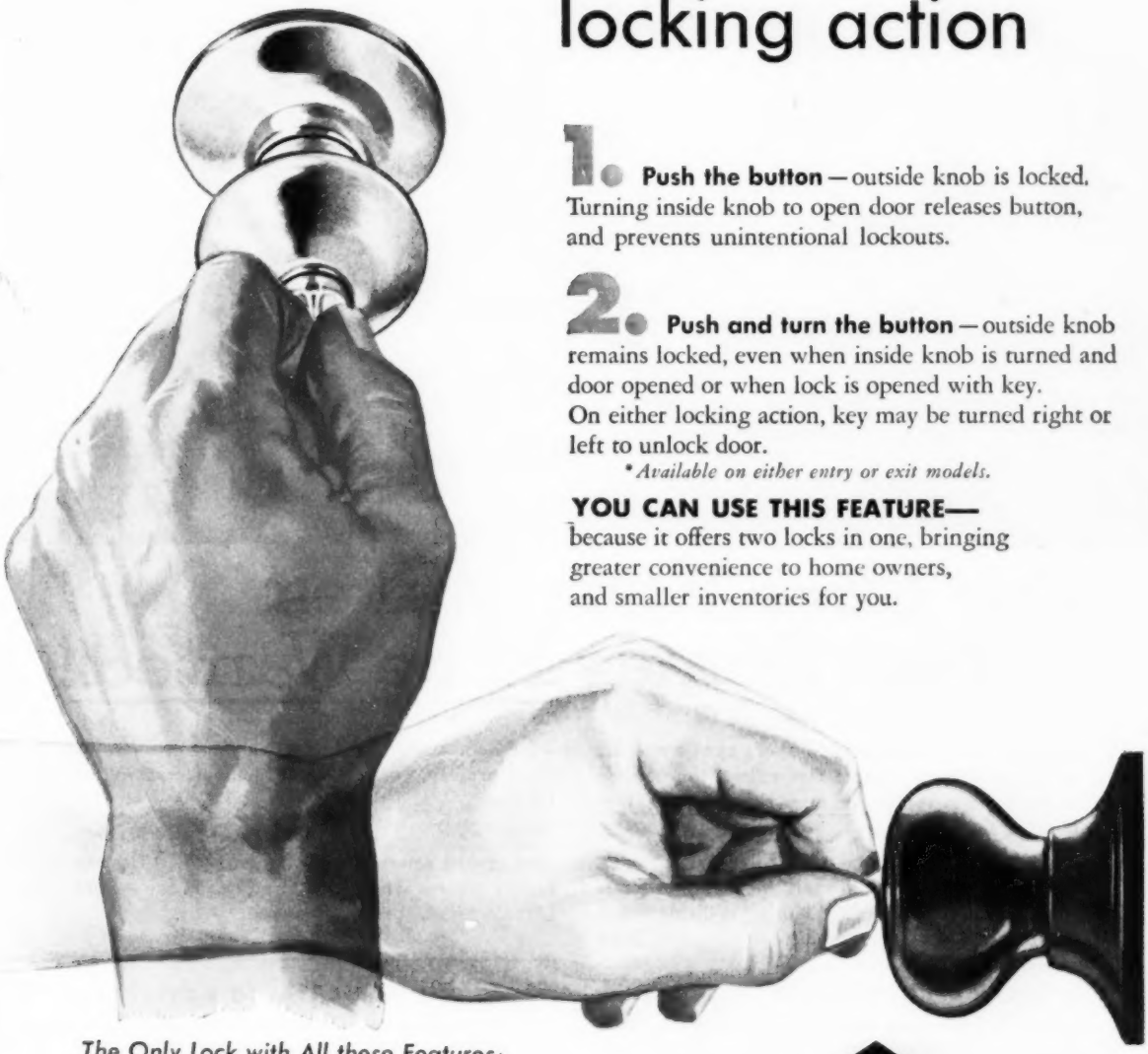
Then, they know they're looking at something DIFFERENT, something NEW—new beauty, rich color, striking designs—"Decorator Effects." ON THE OUTSIDE where everybody can see them—FROM THE STREET. Every home front beautiful, every one different. Front door and shutters can be matched to the garage door with the same colors and accessories. There's no quicker, easier, more effective way to glamourize homes *WHERE IT SHOWS THE MOST* and does most good.

See your CRAWFORD DOOR SALES CO., listed in your classified phone book under "DOORS." Or, write us direct. Crawford Door Co., 153-20263 Hoover Road, Detroit 5, Michigan. Plants in 10 cities; Warehouses in 85 cities; Sales and Service everywhere. In Canada, F. Fentiman & Sons Ltd., Ottawa, Ont.

Crawford *MARVEL-LIFT* Garage Doors with *Customized Design*



the new **Kwikset** "600" line with **Convenient*** two-way locking action



1. **Push the button**—outside knob is locked. Turning inside knob to open door releases button, and prevents unintentional lockouts.

2. **Push and turn the button**—outside knob remains locked, even when inside knob is turned and door opened or when lock is opened with key. On either locking action, key may be turned right or left to unlock door.

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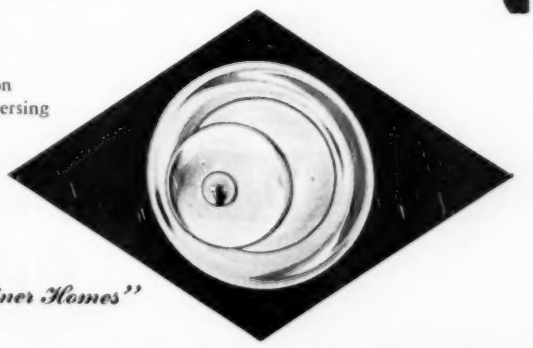
The Only Lock with All these Features:

- Six pin tumbler security
- Exclusive, adjustable strike
- All steel and brass construction
- Full ½" latch bolt throw
- Feather-touch knob action
- Equi-distant knob projection
- Elimination of cylinder reversing
- Unconditional guarantee



Kwikset LOCKSETS 600" LINE

"A Finer Lock for Finer Homes"

KWIKSET SALES AND SERVICE COMPANY • ANAHEIM, CALIFORNIA

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SOMETIMES prospective buyers spot a special detail of a new home that reflects the wisdom of the builder. It often becomes the very thing that clinches the sale.

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CONTENTS

AMERICAN BUILDER

APRIL 1954

Vol. 76. No. 4

EDITORIAL
7 Time and money—how to save both

TRENDS
8 Analyze your local housing market

ON AND OFF THE RECORD
12 A commentary on persons, places, problems and events

NEWS
10 News of note from your area
18 Buildercast of regional trends, forecasts
39 News from the national scene

WEATHER
23 A 30-day weather forecast for your area by Dr. Irving P. Krick

HOME DESIGNS
26 Four pages of houses and plans

BLUEPRINT HOUSE in COLOR
74 Split-levels meet today's space needs
77 An ⅛-inch scale blueprint
81 Materials list for blueprint

NEW PRODUCTS
44 New and improved products and equipment offered by manufacturers

ASK THE EXPERTS
54 Queries from readers on technical problems are analyzed by a board of experts

TECHNICAL GUIDE
64 'Three-in-one' roof panels simplify exposed beam construction

HOW-TO-DO-ITS
72 Job shortcuts for men on-the-job

A BIBLIOGRAPHY ON THE BUSINESS OF HOME BUILDING
82 For the first time—a comprehensive guide to the hundreds of books, pamphlets, and brochures on all phases of the light construction industry, compiled and edited by Eugene Adhemar Tilleux and Leonard G. Haeger, A.I.A.
83 Table of contents to bibliography chapters

DIRECTORY SECTIONS
261 SECTION I—Alphabetical listing of manufacturers of building products and equipment
497 SECTION II—Alphabetical listing of brand names
535 SECTION III—Listing of manufacturers' local distributors
569 Advertising Index

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QUICK FACTS FOR BUILDERS

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Weldwood Hardwoods

There is an ever growing demand among home owners and commercial users alike for beautiful *hardwood* paneling. Weldwood makes it possible for you to meet this demand with a vast variety of woods in various sizes and thicknesses.

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Weldwood plywood for interior use is guaranteed for the life of any house in which it is installed.

ALGOMA GRADE HARDWOODS—These quality hardwood plywoods are produced by men skilled in the manufacture of fine plywood. The veneers are carefully selected and matched for uniform color.

CRAFTSMAN HARDWOODS—These Hardwoods sell for substantially lower prices than the Algoma Grade because some costly manufacturing refinements have been purposely eliminated to cut costs.

ARCHITECTURAL WELDWOOD — These superlative Weldwood Plywoods produced at Algoma, Wisconsin, represent the art of wood veneering at its highest point of perfection—made from selected veneers, exquisitely matched. This grade can be obtained on fire-resistant wood or mineral cores.

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- ★ Extremely easy to install.
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- ★ Can be installed over existing plaster, dry wall or directly on furring strips on studs.
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Lengths: 72″, 84″ and 96″

Real wood paneling helps sell homes.

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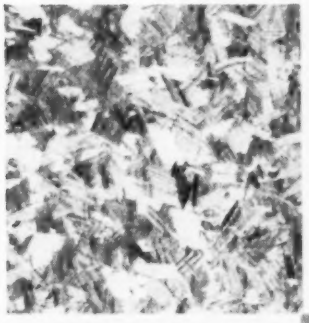

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Larger sizes up to 72″ x 144″ and 48″ x 192″ are available on quantity special orders.

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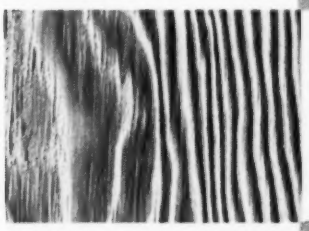
Thickness: 3/8″—48″ x 96″. 3/4″—30″ x 48″, 30″ x 60″, 12″ x 72″, 18″ x 72″, 24″ x 72″, 30″ x 72″, 36″ x 60″, 36″ x 72″, 36″ x 96″, 48″ x 72″, 48″ x 84″, 48″ x 96″.

REDWOOD NOVOPLY

3/8″—3 ply—48″ x 96″.
3/4″—3 ply—48″ x 96″.



Surfwood® Three-dimensional grain and attractive knotty appearance give rustic effect. • Has the beautiful natural appearance of driftwood. • Specially recommended for dens and playrooms, because it gives the "feel" of informal living. Also excellent for cabins, resort buildings, and other commercial applications. • Very low price.

Specifications:

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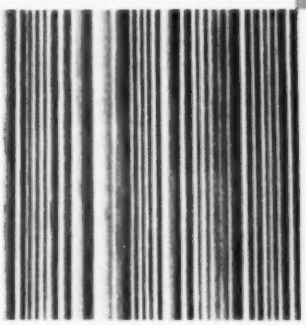
Panel Size: 4′ x 8′



Weldtex® Deep grooves augment beauty of natural wood. • Has a beautiful three-dimensional quality. • Grooves conceal butt joints and face nails. • Little expansion and contraction because grooves relieve surface tension. • Can be painted, stained or left natural. (Finishing instructions with Firzite and Satinlac on request.) • Low cost . . . easy and economical to install. • No grain raising or checking. • Completely protected by patents. • Makes homes more beautiful —easier to sell.

Specifications:

FIR, PHILIPPINE MAHOGANY, GUM AND SEL. GUM

Thicknesses: 5/16″ and 3/4″—fir only. **Width:** 48″ only.

Lengths: Fir—72″, 84″, 96″, 108″ and 120″. Philippine Mahogany—96″ and 108″. Gum—96″ only.

WELDTEX

is available in squares: 11 7/8″, 12″, 15 7/8″, 16″, 24″ . . . packed in handy cartons.
IN FIR—11 7/8″, 15 7/8″.

Weldwood Molding for Trim

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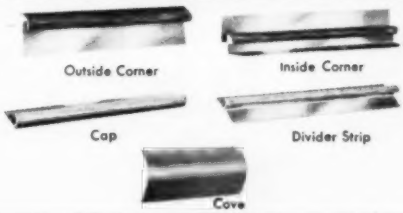

Weldwood paneled rooms can be speedily and economically finished off with Weldwood Moldings, aluminum moldings with faces of genuine hardwood veneers which exactly match the faces of the most popular types of Weldwood Plywood. In addition to the inside corner, outside corner, cap and divider styles, we now offer all-plywood cove moldings in two styles and five different woods.

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- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
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- Doors
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- Bathrooms and Kitchens
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ELECTRIC EXHAUST VENTILATOR

Blo-Fan
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ELECTRIC
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rhymes with FINE...and means it!

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Distributed by Electrical Wholesalers Everywhere in the U. S. and Canada

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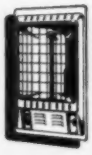
Exhaust fans for multiple housing projects and remodel work.

PRY-LITES
Residential and commercial recessed lighting fixtures.



GLOMASTER
Infra-red, recessed, auxiliary wall heater.

Time and Money — How to Save Both

IT HAS been said that the sale of a house begins on the drafting board, that designing the house is the first step in its sale. In a sense that is true, because the best sales know-how cannot cope with poor design. But good design is largely dependent on something even more remote from the point of sale. That something is a knowledge of the best and latest building materials and appliances. Very important, also, are knowledge of the market in which the house is to be offered, and acquaintance with up-to-the-minute cost-saving building techniques.

Assuming that all of these necessary ingredients of good design have been used, and that the package which is to be sold in a given market meets the requirements of an alert and informed sales force, it is highly important that the builder know where he can buy the materials and appliances which have been specified.

Aware of the need for a single source for all of the information concerning the ingredients of good design, and its end result, good selling, *American Builder's* editors, after conferences with builders and manufacturers, have prepared this special issue. It contains four unique editorial features, compiled over a period of many months, and representing the opinions and advice of numerous builders and producers. All who have had a part in the issue believe that it represents the most complete reference index to the widest scope of specific information ever offered to home builders and distributors.

The bibliography of up-to-date publications covering every phase of the light construction industry is new. Nothing like it has ever been published before. It enables the builder to put his finger on sources of authentic information that will answer any conceivable question he may have.

The alphabetical listing of building products, each with the name and address of the manufacturer, has been redesigned for easier reading and to give more complete information.

The alphabetical listing of brand names enables the reader to find the name of the manufacturer whose particular brand name he knows.

Finally, a list of distributors will, in many cases, save the builder countless hours of searching, and will save the manufacturers who have provided their lists many sales that might otherwise be lost through the builder's inability or lack of time to find a source for a desired product.

To these four features must be added the advertisers' display pages. In all cases advertisers have been urged to prepare special copy that ties into the scheme of the issue.

Readers are urged to keep this volume conveniently at hand throughout the year. It will save time, money and energy in finding the answers to many problems that confront the industry in this year of tightening competitive selling.

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TRENDS *in the Building Field*

analyze your local housing market

CAREFUL analysis of your local housing market is more necessary than ever this year. Even though starts for January, 1954, were 66,000 units, eight per cent below last year, reports from around the country indicate that builders in most areas plan a volume of residential building in 1954 equivalent to or exceeding last year. Despite the January decline, it is entirely possible that the tempo will increase during the year and that builders again will build a million new dwelling units in 1954.

On the other hand, there has been a darkening of the economic picture recently. Unemployment is spreading in some areas. The number of prospective home buyers is diminishing, since the new families being formed, for the most part, represent persons born during the depression when birth rates were low.

In any event, local conditions are the determining factor in the housing market. Many markets will continue to absorb new homes at record levels, while others have reached a supply and demand balance, or a period of declining demand. What is needed is an extensive and continuous program of market analysis in every community of 50,000 or more population, and in many smaller communities as well. This could be the responsibility of the Chamber of Commerce, the Home Builders' Association or individual builders in all sizeable communities.

A very complete analysis of this kind is made in San Diego, California where the research department of the Chamber of Commerce prepares a quarterly summary entitled, "San Diego Housing Report." This report consists of 44 mimeographed pages containing a wealth of statistics and analysis which are undoubtedly of great value to builders in making future plans.

The report includes statistics on births, marriages, divorces and deaths during the last four years. These statistics are available at the County Building in any community.

Other tables of statistics include real estate transfers, union wage scales, mechanics' liens, and a building cost index. The cost index is worked out locally; it is based on a standard two-bedroom house of 830 square feet and a 239 square foot garage.

Also in the report is a compilation of FHA applications received, number of veterans' home loans and the number of new dwelling unit permits by areas.

Here are several excerpts from a typical San Diego report made late in 1953:

"Although thousands of new dwelling units are being completed in the San Diego area, they were being absorbed without a sharp increase in the vacancy rate. However, there are indications that supply and demand are approaching a balance.

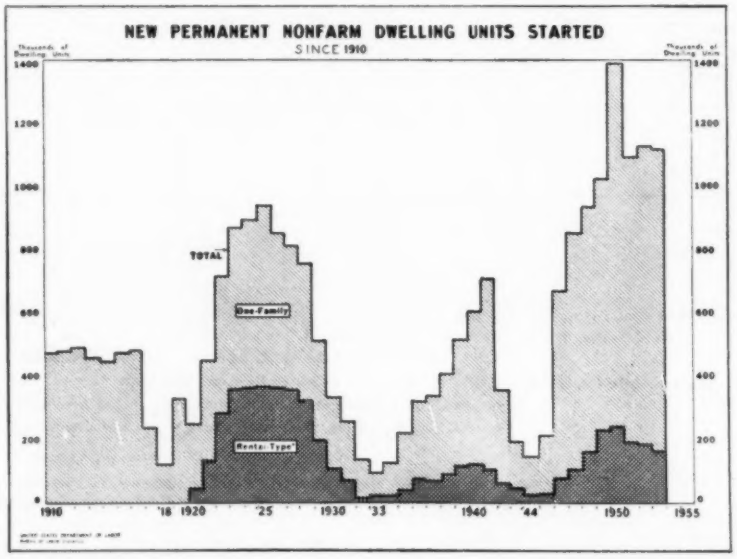
"A post office survey made during the week of September 14th disclosed 4,021 vacancies, more than double the number found in a similar canvas made in 1952.

"The Building Cost Index fell slightly, due primarily to increased competition for business. Competition is leading some contractors to accept smaller profits. There has been no drop in construction industry wage rates or in the over-all cost of materials.

"An all time record for private residential construction in San Diego was established in the third quarter, when permits were issued for 2,982 dwelling units. A sharp drop in housing starts can be anticipated in the fourth quarter. Building permits have now been issued for most of the defense housing."

Such a continuing study of the housing market as the San Diego quarterly report would not necessarily require a great deal of time or effort. Initially, it might require a considerable amount of time to find local sources of data, but once the first report is made, successive reports could be compiled quickly.

The chart on this page shows the drastic ups and downs of the residential building industry since 1910. Stability in both the local and national picture is required if the industry is to achieve full employment and production in the years to come. Market analysis at both these levels can help maintain stability.



"BEST MORTAR I've Put a Trowel to in 20 Years!" — SAID THE MASONRY FOREMAN

ON THIS WELL-DESIGNED, QUALITY-BUILT TEXAS COLLEGE DORMITORY

● From foundation to roof, here is quality construction at its economical best . . . LONE STAR PORTLAND CEMENT in the structure . . . LONE STAR MASONRY CEMENT in masonry.

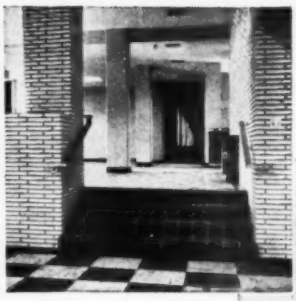
This modern masonry mortar saves time at the mixing box: One less cementing material to handle . . . no lime or portland cement to add. Uniform mortar throughout the job . . . because there is one less variable in proportioning.

Saves time on the scaffold, too: Extra-smooth, easier-spreading mortar helps Masons place and bed more brick or block in a given time. You can go header high before striking joints . . . clean, smooth joints which add so much to appearance.

Utmost durability, too . . . due to low absorption, high water repellency and chemical soundness.

"Best mortar I've put a trowel to in 20 years," said the Masonry Foreman on this job. Use Lone Star Masonry Cement . . . see if you don't agree. Shipped in mixed cars with Lone Star Portland and 'Incor'* 24-Hour Cement . . . handled by well-established building material dealers everywhere.

*Reg. U.S. Pat. Off.



MABEE DORMITORY, ABILENE CHRISTIAN COLLEGE
Abilene, Texas
Architects: **WILSON & PATTERSON**, Ft. Worth
Contractor: **AL WARD CONSTRUCTION CO.**; Tulsa, Okla.
Lone Star Ready-Mix Concrete:
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SOUTH TEXAS LUMBER CO., Abilene

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Buildercast—

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- FORECASTS
- NEW TRENDS

NORTHERN area

A $15,000,000 HOUSING MARKET has just been tapped in Pittsburgh, where builders and allied interests are wading into a backlog of new homes needed for Negroes.

Census figures revealed 1,545 members of the city's Negro population with incomes of $3,500 to over $10,000, many forced to occupy substandard housing in the congested Hill district. This spells a need for homes in the $10,500-$15,000 range, declares the Home Builders Association of Metropolitan Pittsburgh.

To meet this potential demand, A. M. Rearick, association president, created the non-profit Private Housing, Inc., composed of nine HBA members who have put up $100,000 working capital for acquisition of home sites. The corporation is now buying the land, some of it vacant for years, some already carrying substandard rental housing.

HBA members will do the building; the Mellon Bank has agreed to issue some of the mortgage money and FHA has indicated it will insure the mortgages.

In addition to Rearick, members of Private Housing, Inc., include Theodore A. Rauch, C. F. McWilliams, Calvin D. Crawford, Roland S. Catarinella, Russell P. Miller, Franklin B. Wimer, Stephen E. Kovach Jr. and Harold Sampson.

HEAVY LOW-COST DEMAND exists in Sandusky, Ohio. Local chamber of commerce survey of 5,670 household heads disclosed that 49 per cent were renting or doubling up and that 74 per cent of the latter group were interested in a home priced between $7,500 and $10,000.

Check of 15 members of Omaha Home Builders Association, who built 648 houses last year, found them planning to put up 736 units this year. Seven said they would increase their output this year, five will hold to their former pace while only three expect to cut production.

Best start since 1940 is the story from metropolitan Chicago. Survey of its 98 communities shows 323 more home permits issued during January-February than in the same period last year. Valuation had increased too, by $5,994,740.

Another fast '54 start is the word from Toledo, where six of the largest home building organizations averaged better than $250,000 in sales the first six weeks.

INVENTORY OF UNSOLD NEW HOMES is new monthly service to show members of Montgomery County Builders Association of Dayton, Ohio, which way the sales winds are blowing.

Members receive questionnaires at end of each month, are urged to return them listing number of homes unsold according to price class, average time from completion to sales and number of sales planned for the month. Results are tabulated in association bulletin and rushed to members a week later.

First month charted. February, was ignored by a few members, but showed only 64 "unsolds" (nearly half in $15,000 to $20,000 range) and 107 planned starts.

Along somewhat similar lines, Home Builders Association of Mahoning Valley, Youngstown, Ohio, will report residential building permits issued each month and compare them with corresponding totals of a year ago.

COST BREAKDOWN of typical conventionally-built home has been prepared by the Mahoning Valley group and is to be refigured periodically by several builder members. This is expected to indicate changes in construction costs, other trends.

"THE 'NEW LOOK' IN HOME BUILDING—in design and in decoration—is one of the best sales producers in a buyers' market. So are nationally advertised materials and appliances. Their names often say the last convincing word, 'quality,' to prospective buyers. That's one good reason why we use 28 Post-advertised products in the homes we're building."
(Manufacturers of building materials, equipment and fixtures place more advertising dollars in the Post than in any other consumer magazine.)

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ON and OFF the RECORD

PACKAGING is becoming the all-important word in the new search for ways to reduce building costs. Everyone concerned with the subject appears to be convinced that the development of new packages—principally through panelization—is the best answer.

AT LEAST 50 intense studies are under way right now, each one aimed at developing a new package. Trouble with these studies is that nearly all of them are being carried on independent of the others.

BIG NEED is a clearing house for exchange of ideas and co-ordination of effort.

DISTRIBUTION is probably the second of the all-important words involved in the new studies, because setting up the most economical distribution systems for the new packages is just about as important as development of the packages.

CO-ORDINATION is on the way. Manufacturers, dealers and builders have come to realize that any new package developed by any one of the three must meet the current and potential needs and limitations of the other two if it is to be successful.

FOR INSTANCE, a new package independently developed by a manufacturer should not be promoted until the producer is sure that it will be used by builders, and that it can be obtained locally.

IN THE MIDDLE is the distributor. He must also know that any package he develops will be acceptable to builders, and that the components of the package can be produced by manufacturers.

IT IS EXPECTED that a definite forward step in co-ordination of thinking and effort will be reported within the next sixty days.

JUST A WORD about the distribution of the new packages. It is noticeable that in some of the planning, packages are being discussed with respect to the limitations of horizontal delivery.

LONG RANGE development might well consider the possibility or probability of vertical delivery to the job site. That is, helicopter delivery, lifting a pallet or package from the fabrication plant or assembly or distribution yard, and setting it on a scaffold or work deck without the need to unload and hoist.

MAYBE SOME of that is feasible now. Military operations in Korea used the helicopter effectively for vertical delivery of both personnel and materiel.

IF THE COST of vertical delivery from above for some of the current and proposed packages is too high, it is conceivable that research might develop a new type or size of package for economical delivery by means of helicopter.

APPRAISING THE 1954 market a few days ago, someone wisely said that if a builder can keep pace with competition he will get a high volume during the year, but if he can step ahead of competition by even a slim margin, he can get a fabulous volume.

ALBERT M. COLE, HHFA administrator, said recently, "It is the conviction of this committee (President's Advisory Committee) that the constant improvement of the living conditions of all the people is best accomplished under a strong, free competitive economy, that every action taken by government in respect to housing should be for the purpose of facilitating the operation of that economy to provide adequate housing for all the people. . . ."

"IT'S ANOTHER WAY of saying," said Cole, "what the President himself said with respect to the liberal attitude of his administration in resolving human problems within the framework of a conservative economic policy."

"VOCABULARY," says Phil Creden, public relations director of the Edward Hines Lumber Company, "is one of the major and badly neglected tools of good selling."

CREDEN COMMENTED that to talk professionally about lumber, for instance, a man has to learn over 200 new words. If you add millwork, insulation, wallboard, plywood and roofing you get a list of over 500 new words a young employee has to master.

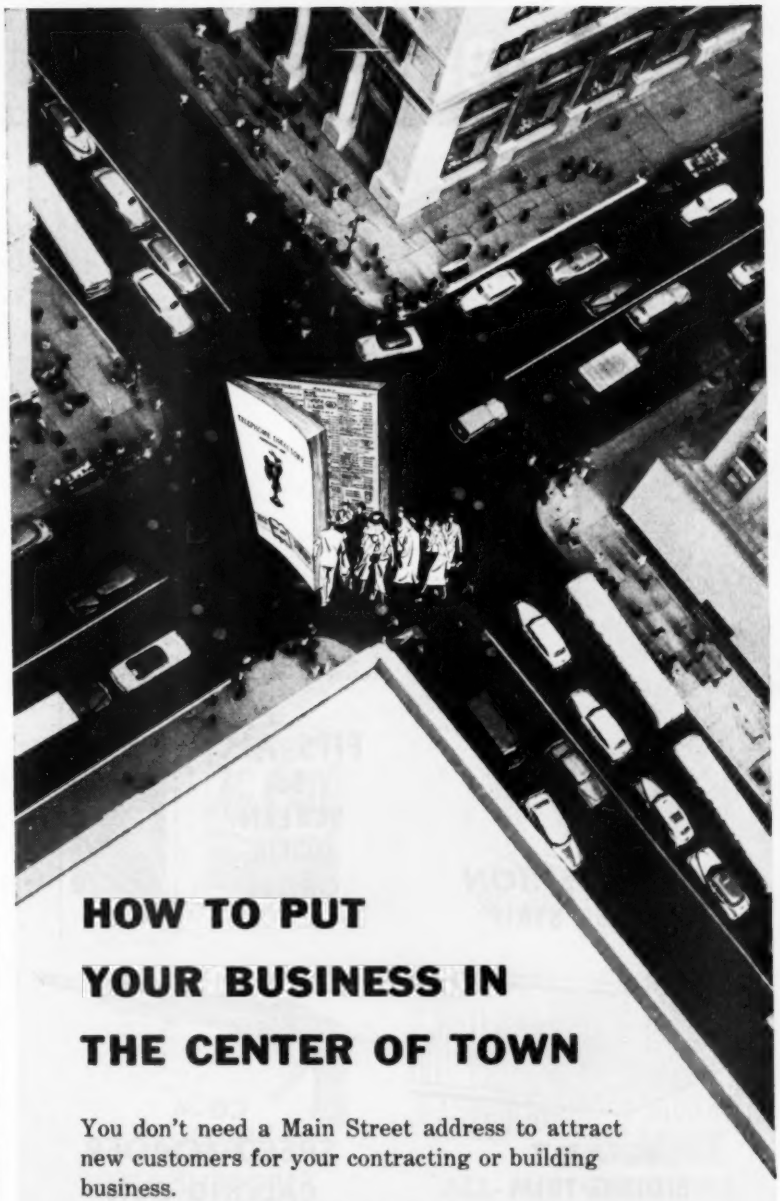
THAT'S A SIZEABLE task, and if a dealer proposes to convert his lumber yard into a general store for building materials of all kinds, he makes it impossible, Creden stated, for a young salesman to become a specialist in anything. It's an age of specialization, he concluded, and there is a need for specialists in the sale of lumber products, insulation and roofing.

TO THAT, we say, "Amen." If we are going to solve the admitted distribution troubles of the light construction industry, particularly as they apply to the troubles of the retailer, the time has come for the retailer to realistically appraise what he can sell on a level of high specialization and service, and cut his cloth accordingly.

"IT GETS DOWN to just this," continued Creden. "If you want to sell new houses, you've got to set up sales, merchandise and service for that purpose. The same applies to garages. Don't dissipate a lot of advertising money on 'traffic builders.' People who come in to buy garbage cans don't turn around and say 'I'll buy a garage to go with it.' "

THE DAY of the purely residential town is gone, at least for a number of years. Mounting tax burdens in suburban residential towns threaten to break the economic backs of the residents. The only answer to the tax problem is industrial development, and with few exceptions, the town that hopes to survive will have to invite industry to come in and share the tax load.

THAT GIVES RISE to new zoning problems, and even the town that hopes to resist industry will do well to start zoning now against the day when it will have to woo industry.



HOW TO PUT YOUR BUSINESS IN THE CENTER OF TOWN

You don't need a Main Street address to attract new customers for your contracting or building business.

Use the 'yellow pages' of the telephone directory. That's where people look when they're looking for a contractor or builder. Using the 'yellow pages' has been an American buying habit for over 60 years.

The 'yellow pages' get your name, address, telephone number and sales messages in homes, offices, shops and factories all over town.

It's like putting your business right square in the buying center of your community.

Get in touch with the Classified Telephone Directory Representative at your local telephone business office.

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WEATHER STRIP

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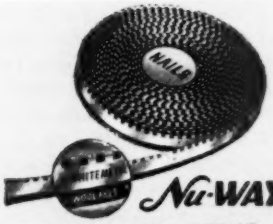
DOOR
GRILLE

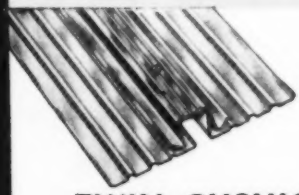
Nu-CALK
HAND SQUEEZE
TUBE

Nu-ART
LETTERS

Nu-CALK
SPEED
LOAD



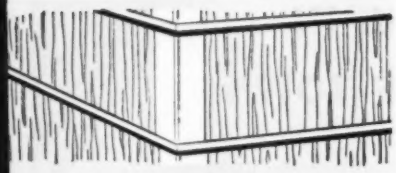
Nu-WAY
WEATHER STRIP



TWIN-CUSHION
WEATHER STRIP

FITS-ALL
56
SCREEN
DOOR
GRILLE

Numetal
DOOR BOTTOM STRIP

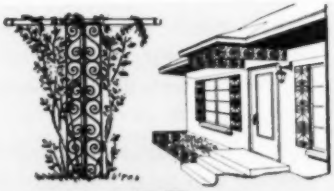


Nu-ART
SIDING TRIM

CG-4
SPEED LOADER
CALKING GUN

Nu-LUME REFLECTING
NUMBERS & LETTERS

Nu-WAY
SHELF BRACKET



Nu-ART
ORNAMENTAL ALUMINUM

Nu-WAY
PUSH GRILLE

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Nu GARD Automatic
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Nu-ART
THRESHOLDS

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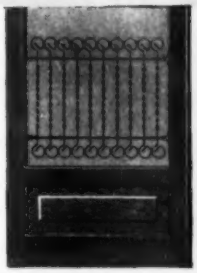
NO. 5
SCREEN
DOOR
GRILLE

Nu-ART
NUMBERS

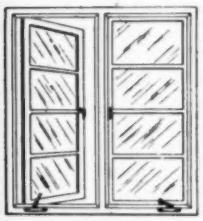
Nu-WAY
SCREEN
DOOR
GRILLE



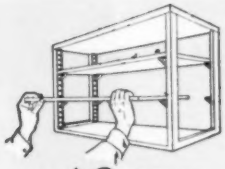
Nu-ART
MOULDING
AND TRIM

Nu-CALK
CALKING
COMPOUND

On-GARD
WEATHER STRIP



WEATHER
STRIP
FOR STEEL
OR
ALUMINUM
WINDOWS



Nu-WAY
SHELF SUPPORTS

Nu-LUME
ALL-PURPOSE SIGNS

Nu-ART
GRILLE ORNAMENTS

Nu-Phalt
PLASTIC
ASPHALT
CEMENT

Noiseless
SLIDING DOOR EQUIPMENT

MACKLANBURG-DUNCAN CO.

OKLAHOMA CITY 1, OKLAHOMA

M-D

MACKLANBURG-DUNCAN CO.

FITS-ALL NO. 5

Gracefully designed, yet fully adjustable for nearly all wood or metal doors! Made of silvery-satin Alacrome that will not rust or tarnish. Patented holder makes installing easy! Surface clamps for fastening grille to outside of door included.

Attractive Display Carton Shows 'em and Sells 'em!

Each grille packed in individual, colorful carton with complete instructions for installing and suggestions for arranging scrolls. Really an eye-catching display!

Beautifies Screen Doors...

PROTECTS THEM, TOO!..

FITS-ALL NO. 1—Instantly adjustable to all screen doors. Accordion-like action permits expansion from 16" to 30¾" in width between stiles and from 40½" to 30¾" high. Squared up size is 30¾" x 30¾". Packed 12 to carton—screws furnished. Made of Alacrome—silvery-satin finish.

FITS-ALL NO. 2—For doors with divided sections. Each side adjusts from 13" wide and 19¾" high to 14½" wide and 17½" high. Will not rust or tarnish. Packed 12 pairs to carton.

FITS-ALL NO. 3—For lower section of door with cross-bar. Fully adjustable from 14" wide and 32½" high between stiles to 25" wide and 25" high between stiles. Silvery-satin Alacrome finish. Packed 12 to carton.

FITS-ALL NO. 4—For upper section of doors. Adjusts from 19½" wide and 34" high between stiles to 33⅛" wide and 20¾" high between stiles. Will not rust or tarnish. Packed 12 to carton.

FITS-ALL NO. 7—Adjusts from 18" wide to 32" high between stiles to 24¾" wide to 27" high. Squares up at 26" x 26". Packed 12 to carton.

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ORDER TODAY! Your order will be shipped same day received!

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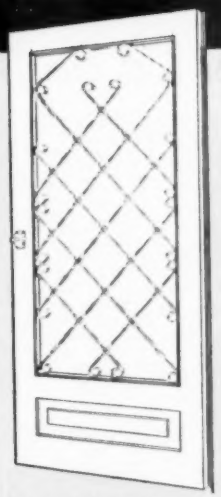
OKLAHOMA CITY, OKLAHOMA

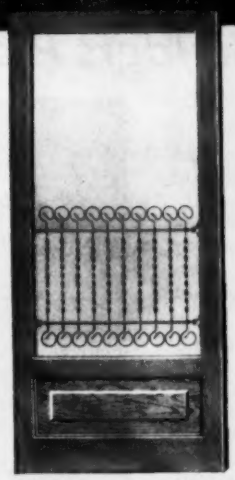
FITS-ALL *Adjustable Screen Door* GRILLES

America's Most Complete Line!

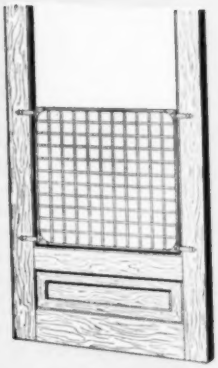
FITS-ALL NO. S6—Easily installed and fully adjustable. Made of Alacrome with silvery-satin finish—will not rust or tarnish. Packed in individual carton.



FITS-ALL NO. F5—Fits full-size panel. Adjustable from 22" to 30" wide and from 75" to 55" high between stiles. Packed 6 to carton.



Nu-WAY—Comes in silvery-satin aluminum or steel with black enamel finish. Fits 30" and 32", 36", 42" doors. Easily installed on doors or as window guards.



Nu-GARD — Interlaced ribs form strong protection for screen. 32" fits screen openings from 24" to 28½" and 36" fits openings 28" to 31½". Silvery-satin Alacrome will not rust or tarnish!

Nu-WAY

Nu-WAY PUSH GRILLE—4" high, made of silvery-satin Alacrome. 32" fits openings from 24" to 26" wide and 36" fits between stiles from 28" to 30". Packed 12 to carton.

Nu-WAY

Nu-WAY DELUXE PUSH GRILLE—For aluminum or wood doors. 6" high, made for 32" or 36" doors. Silvery-satin finish, will not rust or tarnish! Packed 12 to carton.

Nu-WAY

Nu-WAY SUPER PUSH GRILLE—Made especially for combination doors—wood or metal—16" high for 21", 23", and 27" insert panels and for regular 32" or 36" doors. Silvery-satin finish. Packed 12 to carton.

Nu-ART ORNAMENTAL ALUMINUM—Ideal for trellises and other decorative uses. Comes 16" wide and 7' high—easily sawed. Silvery-satin finish will not rust or tarnish. Packed in individual display carton.

Nu-Art GRILLE ORNAMENTS

Attaches to nearly all screen door grilles. Made of cast aluminum with colorful outlining. Comes in individual envelope with instructions, clamps and bolts.

Brand New! FITS-ALL GRILLE MONOGRAM

Customer chooses initial or numbers from your stock and mounts on black disc. Packed 2 discs to envelope with screws and fasteners. Attractive, yet inexpensive!

Milwaukee Builders Pioneer Co-op Site Plan

The Milwaukee Builders' Association has established a new precedent for local associations by its purchase of 200 acres for early co-operative development by 45 members as Milwaukee County's largest subdivision since 1928. The joint venture was said to be an outgrowth of the lack of vacant land for building and the present high costs of site development.

After the tract has been improved with five miles of sewers, water mains and streets (about May 1), on a volume cost-saving basis, the association will sell parcels of lots to individual members at no profit. A section has been reserved for MBA's ninth annual Parade of Homes to display houses built by 50 different members during National Home Week.

The property is in West Allis, approximately 12 miles south of downtown Milwaukee. It was assembled by August Urbanek, association member. Known as Milwaukee Builders' Association Wildwood Estates, it will comprise over 500 dwelling units, a 20-acre shopping center and an elementary school. Residential units will include private houses ranging from about $13,000 to $25,000; 33 duplexes and 15 buildings with 12 apartments each.

Phil Herriges, association president, has named Val Zimmermann as general chairman of the project as well as the parade. Zimmermann estimates the development cost saving will average from $750 to $900 per lot.

Aerial view of the 200-acre "close-in" area of raw land selected as site of Milwaukee Builders' Association Wildwood Estates. Work has already started

While a builder who bought a parade lot had the opportunity to buy additional lots, none was given two contiguous lots, because it was thought that a row of houses exactly alike would detract from the project's appearance. Before any specific parade sites can be allocated, participants must submit plans to a design committee headed by Clem Schmit.

Eight of the builders had already commenced operations during the first week of March, according to Roy F. Healy, executive vice president.

'54 Officials of Northeastern Lumbermen

Officers chosen at New York convention of Northeastern Retail Lumbermens Association include: (front, from left) Oliver J. Veling, treasurer; J. Harold Stacey, retiring president; Deyo W. Johnson, president; Arthur Clifford, first vice president; (rear) Paul S. Collier, executive vice president; Frank H. Morin, past president; Jay LeFevre, second vice president; Duncan S. Briggs, fourth vice president; and Joseph E. Hollingworth, third vice president

Syracuse Builders Buy Tract as Joint Venture

Another ambitious joint building venture is starting in Dewitt, N. Y., a suburb of Syracuse. Members of the Home Builders Association of Greater Syracuse organized the Land Holding Corporation which bought contiguous tracts totalling 90 acres and then put in roads, sewers and water.

Lots were offered to other builders "at the most reasonable price which could be established under the circumstances," reported William F. Topp, executive secretary. Men who owned stock in the corporation paid the same price for lots as non-owning participants. Right to purchase the stock is open to all builder members of the association.

Part of the tract has been reserved for the Syracuse Parade of Homes, Topp said.

Caller from Cebu

Sergio Osmena Jr., governor of Cebu, Philippines Republic, pauses with his host, Albert Friedman, developer and realty man of Schenectady, N. Y., during housing tour of the city

Roamin' the North—

Refund checks totaling $143,629 were received last month by 194 members of Long Island Home Builders Institute participating in its cooperative workman's compensation insurance plan. **Charles M. Jaeger**, group chairman, pointed out an additional amount saved by the builders, which was set aside in a reserve fund, meant total savings of $241,255 during the last fiscal year, or 53 per cent of the premiums . . . LIHBI expects another 1,500 capacity turnout for its annual banquet and dance May 1 at New York's Hotel Commodore . . . Hartford County HBA, New England's biggest, honored its organizer, **John A. Olson** of Worcester, at its recent tenth anniversary meeting. **Harold Fenton** was chairman . . . Westchester (N. Y.) builders **Alan Carnoy** and **Hendrik Wolter** have purchased 150 acres near Saugerties, N. Y., for a long-range program of 500 low-cost dwellings . . . HBA of Des Moines had five charter members in 1944; 230 members on its tenth anniversary. **Ernest L. Canine**, builder for 24 years, is new president . . . **C. E. McGranahan** is new executive secretary of Home Builders' Association of Mahoning Valley, Youngstown, Ohio . . .

Yates Cook of NAHB made deep effect on Columbus, Ohio, with his

C. A. Mitchell

E. L. Canine

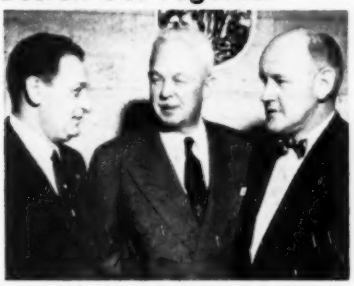
slum clearance story in mid-February. Following week, local papers were filled with editorials, stories, etc., calling for adoption of home builders' rehabilitation plan. Extensive study now under way . . . **Charles A. Mitchell**, former sales manager of new home construction for Edward Hines Lumber Co. in Chicago, has been upped to general sales manager of the retail division . . . **Frank Morone**, Long Island builder, has purchased a section of the Saddlewood subdivision in Colonie, near Albany, N. Y., for improvement with 62 homes . . .

Mapping Drive on Slums

Martin Reitz, chairman, St. Paul Home Builders Association Urban Rehabilitation and Redevelopment Committee, points out trouble spot to Bob Pollard

R. Kaye Hunter, former FHA director at Camden, N. J., has opened architectural offices in that city in partnership with **Joseph Praissman** . . . New Jersey HBA holding first legislative dinner April 12 at Hotel Hildebrecht, Trenton . . . HBA of Greater St. Louis teamed up with local Producers Council and American Institute of Architects chapters to present a three-day "home builders institute March 16-19 at St. Louis University. California builder **Joseph L. Eichler** (Palo Alto) gave one of the principal addresses . . . May 22 is date of annual dinner dance of HBA of Westchester, at Glen Island Casino, New Rochelle, N. Y. . . . Spring meeting of National Building Material Distributors Assn., will be May 3-4 at the Statler, Washington, D. C. . . . Newest local to affiliate with Ohio HBA is Lake County Builders Assn., which has reelected **Jack Silver**, president.

Boston Get-Together



Alfred L. Roberts (left), president, Home Builders Association of Greater Boston, and Arthur H. Oman (right), NAHB New England vice president, chat with Edward G. Gavin, editor of *American Builder*, during group's February meeting

Picking a Model House Winner Proves Task

Quality of entries by Washington University architecture students created tough decision for judges in contest of Home Builders Association of Greater St. Louis. Judges (from left): Samuel Ladd, architect and builder; Lawrence Steffen, chief FHA architect, St. Louis; Charles King, St. Louis AIA president; Al Bockhorst, professor at Washington U.; Earl Bumiller, builder and engineer; Burford L. Pickens, dean, School of Architecture, Washington U.

There's a profitable difference in these millions!

Over 3¾-million families, screened for the BUY on their minds

YOU KNOW Better Homes and Gardens as one of America's three largest man-woman magazines.

But more important to you, as an advertiser, is the fact that its over 3¾-million families read BH&G *with a purpose*—to buy both the ideas of the editors and the products in its advertisements.

What's more these readers have been *preselected* by editorial planning for high income, home ownership, and the desire to raise living standards even higher.

They find advice and counsel in BH&G on how to make homes better, more comfortable, more livable—what to do, how to do it, and what to buy to do it with. So, when you tell them *whose* to buy, you're continuing the editorial story.

That is the "profitable difference." That is why your advertising—for anything to do with building or improving homes—works harder in BH&G—dollar for dollar—line for line—page for page.

Here is your primary advertising medium—the only one of America's three largest man-woman magazines to grow great by showing readers how to live better. Build on this "profitable difference"!

MEREDITH PUBLISHING COMPANY, Des Moines, Iowa

BH&G BUYological Briefs

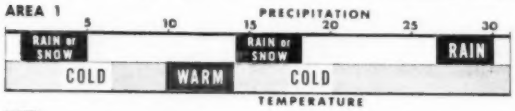
- BH&G has led all major circulation magazines since 1947 in editorial lines devoted to building and home repairs.
- BH&G is read by 7 out of every 10 families building new homes for their own occupancy.
- BH&G is read by more new home-building families than any other magazine—preferred 5-to-1 over the second ranking magazine.

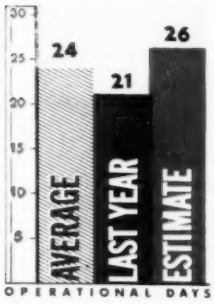
building weather for April

An exclusive *American Builder* service prepared by Irving P. Krick, Ph.D., and Staff

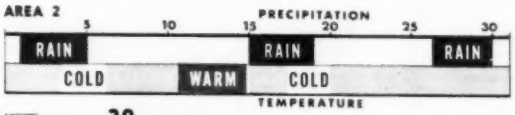
Special climatic studies were made for selected cities in each area to determine AVERAGE and LAST YEAR Operational Days. ESTIMATES are *generally* applicable to each area. Precipitation and temperatures extreme enough to stop outside work have been forecast as number of NON-operational days. Naturally, inside work may on occasion proceed even through the cold and wet spells shown.

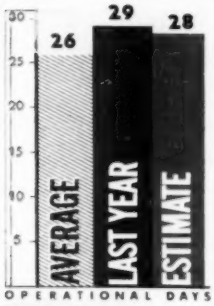
NORTH: With the exception of the northeastern region, this area may expect better than usual working weather.





Cold and very wet weather prevailed in Area 1 during April of last year. Many stations recorded temperature averages six or more degrees below normal and precipitation totals in excess of 150 percent. For this coming April, warmer than normal weather is in prospect. Precipitation amounts are expected to range from about normal in eastern North Dakota to less than normal elsewhere. Outdoor construction weather will be better than normal or that of last April.





Better than average working weather is anticipated in the central Plains region of the United States during April, 1954. Temperatures for the month are expected to average above normal over most of the area, and rainfall totals are not likely to exceed the normal value for April. Thus, the number of operational days will be greater than the average and about the same as that of last April when rainfall totals, with the exception of Iowa, were below normal.

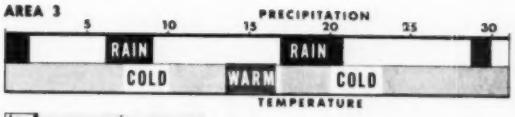
Krick

The Case of the Flapping Front

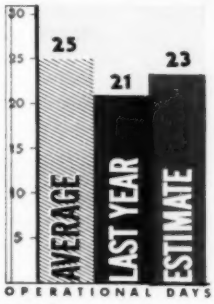
You've no doubt seen your TV weather man describe fronts as the boundary between warm and cold air masses. Because *most* weather fronts move in a regular manner from west to east, forecasting is a fairly straight-forward job for the professional weather man.

The exception is the "flapping front," designed to grey forecasters' hair overnight.

When a "flapping front" occurs, temperature fluctuations as much as 30 degrees have been noted . . . not just once, but as often as six times in a 24 hour period! Most of the time, it's observed along the eastern slope of the Rockies. This is how it happens:



Near to slightly below normal temperatures will be observed in Great Lakes area in April, 1954. Rainfall in Michigan and eastern Ohio will be about normal while elsewhere in Area 3, slightly drier conditions are in prospect. Outdoor construction weather, therefore, will be slightly better than usual and considerably better than in April, 1953. Last April, cold, wet weather occurred in Michigan; cold and slightly dry conditions in the balance of the area.



The weather during April, 1954, in Area 4 is expected to be characterized by relatively unfavorable working conditions. Temperatures averaging about two to three degrees below normal are in prospect for the month. Frequent intervals of stormy and unsettled weather are likely to occur, resulting in rainfall totals in excess of the April normal. Thus, the number of days free of restrictions due to the weather will be less than the average.

April, 1953 was warm and wet, as compared to normal, in the New England area. For April, 1954, the weather is expected to be somewhat colder than usual with above normal rainfall amounts likely to be recorded throughout all six states. The total number of operational days should be below the April average and also that observed last April. Principal weather restrictions during this month will be rainfall amounts in excess of the critical values.

● Timing of weather events is indicative of trends. Don't expect precipitation on every day of the period indicated.

A cold air outbreak pushes across the Canadian border into the northern Great Plains states. Usually the tendency would be for this mass to move off to the east (Minneapolis, Milwaukee, Detroit), but if its bulk is great, spreading takes place (like poured pancake batter) and the apparent movement is to the west (Rapid City, Denver).

Along the western edge of the cold air, the thermometer will plummet. Then, if the mass recedes east, the mercury will soar. If the cold air outpouring continues at its source, the cold air boundary moves back west again, and down drops the temperature. This *can* go on for days, but fortunately the unorthodox performance of the "flapping front" is relatively infrequent.

The next time you see a grey headed weather man, remember what may have caused it!

A HIT AT THE HOME BUILDERS SHOW

New "SPACE-MAID" BATH ROOM STORAGE CABINET

and KNOCKED-DOWN METAL DOOR and WINDOW FRAMES

Every bathroom needs more storage space. Install "SPACE-MAID" at low cost and make your houses easier to sell at a more profitable price. "SPACE-MAID" extends into the wall, around the standpipe above the bathroom commode. (See plan below.) Total inside depth is 11¾ inches by 24 inches wide. Plenty of room for towels, linens, toilet tissue, soaps, large medicine bottles, etc.

"SPACE-MAID" is the "something extra" and the "something new" that clinches your sales in 1954. Write or wire for prices and complete information.

New and Different

(Patents Pending)

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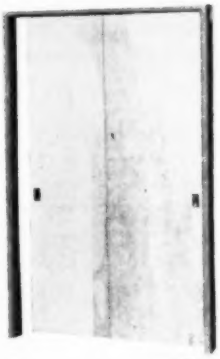
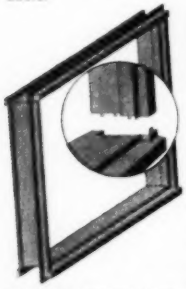
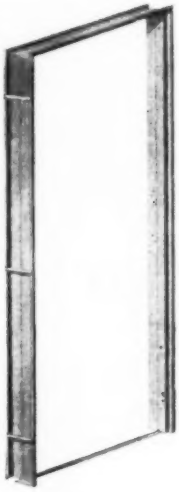


BUILDERS knocked down steel frame for sliding doors.

(Patents Pending)



BUILDERS knocked down metal window frames.

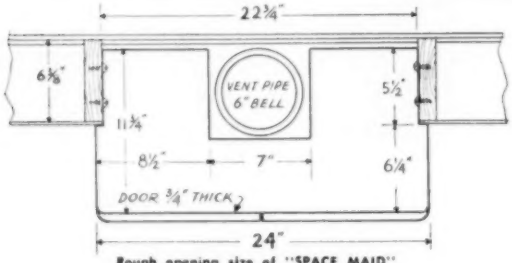


BUILDERS knocked down standard steel door frames.

Above: "Space-Maid" Bathroom Storage Cabinet on display at Builders Manufacturing Company booth during National Home Builders Show at Chicago, January 17-21, 1954.

Right: Close-up view of "Space-Maid" cabinet showing ample room for storage of bathroom supplies.

CABINET IS IDEAL FOR APARTMENT HOUSES



Rough opening size of "SPACE MAID" Cabinet 23 inches by 29 inches.

TWO MODELS

Model "A"—For new construction, 11¾" x 24"

Model "B"—For existing construction, 8" x 24"

White baked enamel finish

KNOCKED-DOWN DOOR AND WINDOW FRAMES

A knocked down metal window frame absolutely waterproof in all corners and NEVER BEFORE available in all three corrosion-resistant materials — GALVANITE STEEL, ALUMINUM and STAINLESS STEEL. STANDARD PRODUCT—PLAIN STEEL.

A steel knocked down door frame so easy to assemble and actually more rigid than a tabbed frame with welded corners. Beautiful new curved line design.

A wedged-head knocked down steel frame for sliding doors, complete with hardware for 1⅜" and ¾" doors. Overhead easy rolling track. Frame matches standard BUILDERS wedged-head door frames.

Whatever your corrosion problem may be, there is a BUILDERS FRAME for you.

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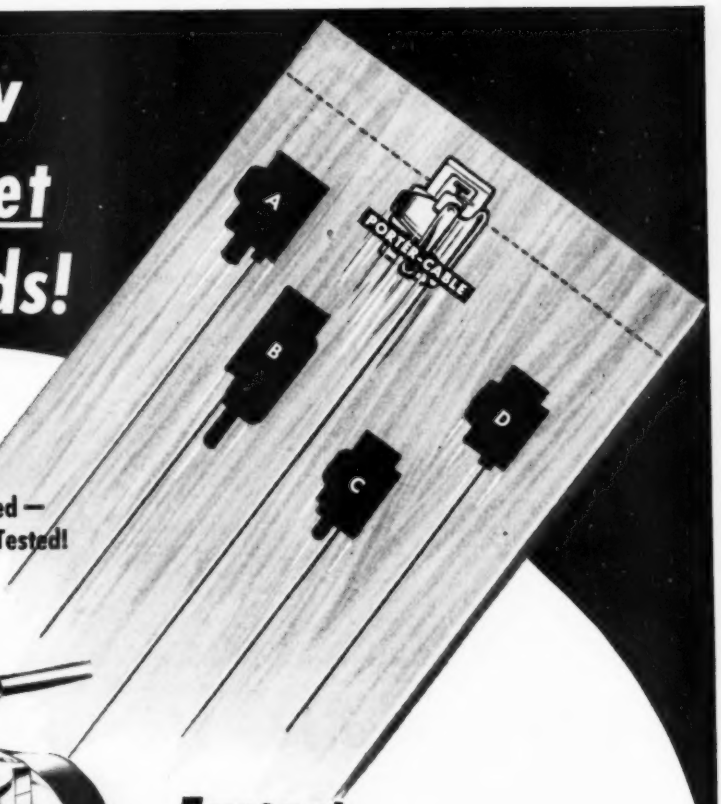

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Regardless of the depth of cut or type of wood used, the new "Contractor's Special" in every instance finished the cut far faster than any of its competitors! For example, on ¾" Fir Plywood, the "Contractor's Special" averaged 7.5 seconds per 8-foot cut!

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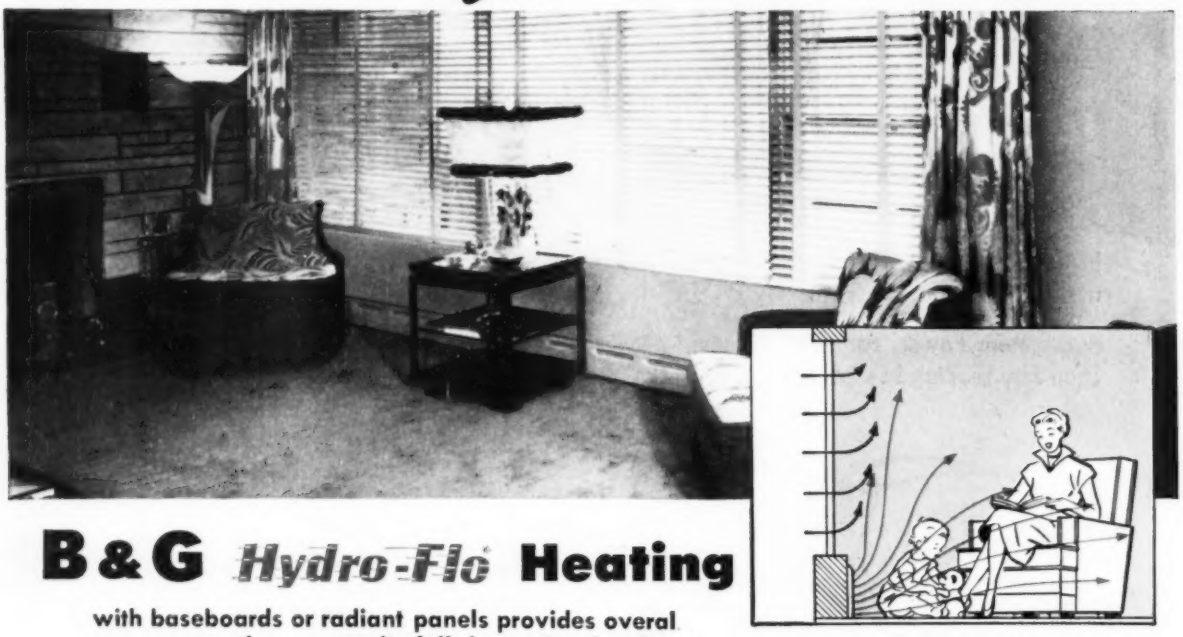

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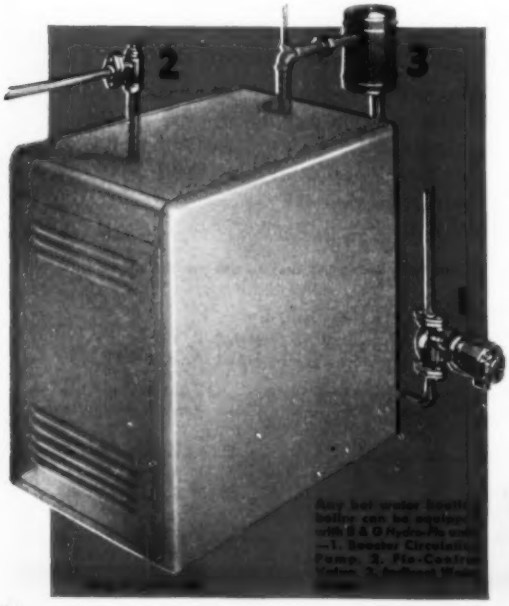
Homes with large glass areas present a special heating problem—easily solved with *radiant* B & G *Hydro-Flo* Heating. This forced hot water system permits proper placement of the heating units to protect against icy downdrafts from the windows and to keep floors warm.

B & G *Hydro-Flo* Heating provides not only a better *quality* of heat but better *controlled* heat as well. Every change in the weather is automatically met with a corresponding change in the heat supply. No fuel-wasting overheating—but always plenty of heat when the thermometer hits bottom.



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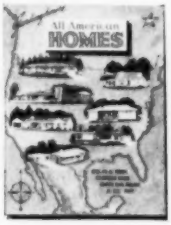

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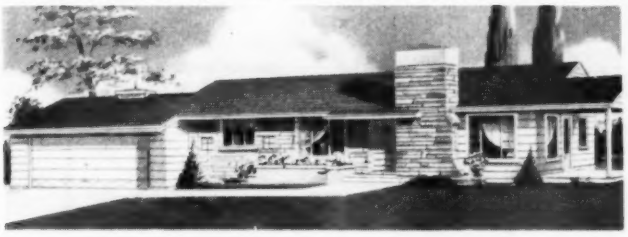

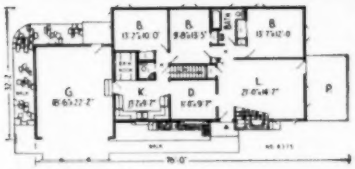

***Typical* of the many beautiful plans shown in the above books, is this popular 3 bedroom ranch design.**

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AMERICAN BUILDER *Selected Homes* NORTH

new Long Island split-level has L-shaped plan

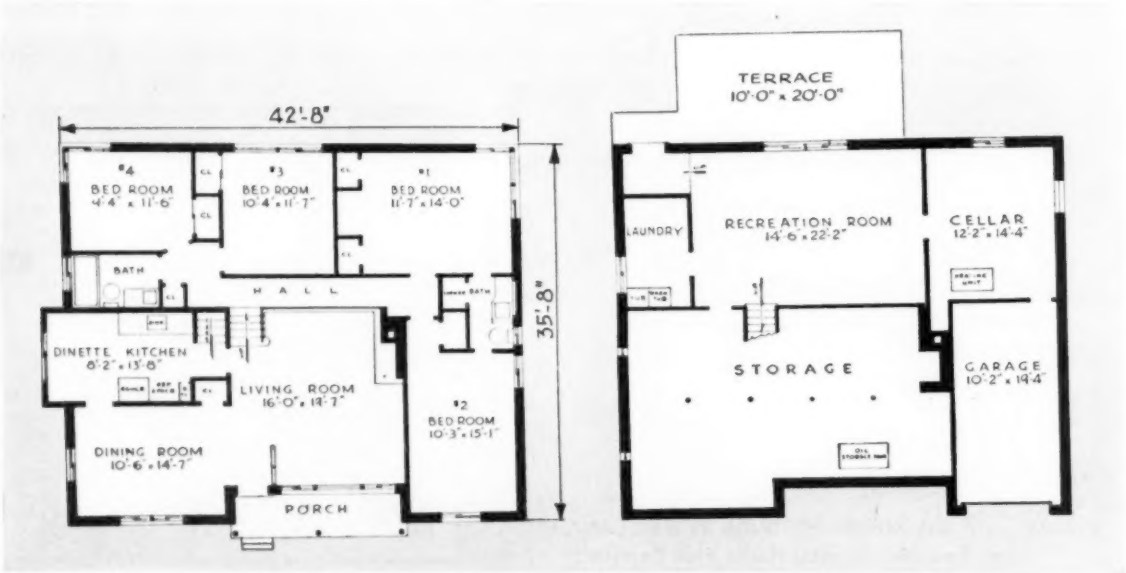
L-SHAPED first and third levels which wrap around the main living area have been introduced in split-level design by J. Lewis Mayers, New York builder and architect, at Tarleton Manor, a group of 112 houses in Massapequa, L. I.

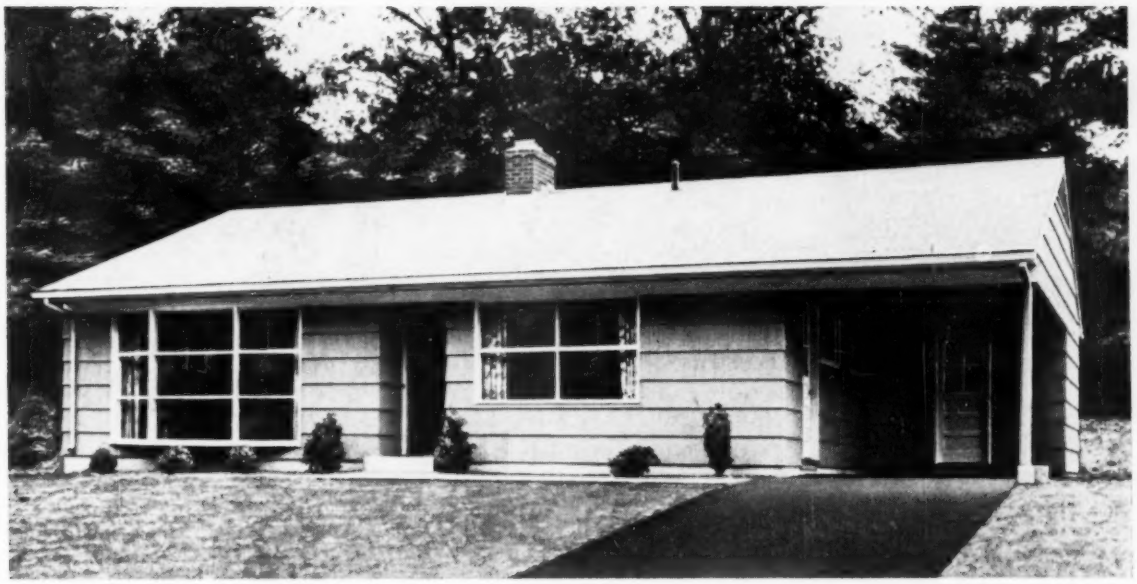
Basically a tri-level home with a front to rear split, this design used balloon-type framing on 1x6 ribbons, making it possible to frame the entire split-level in one operation.

The layout provides for four bedrooms on one floor, with a bathroom for each pair of bedrooms. A galleried hall with wallpaper mural looks down on a cathedral-type living room. The latter has a 12-foot ceiling, corner fireplace and wide window area opening onto covered front porch.

Largest single space in the house is 22-foot recreation room, or second living room, which spreads across rear of house only a step below grade. Laundry room on this lower level, includes service door, is diagonally under kitchen and easily reached via a half-flight of stairs. Garage and furnace room for hot water system are also on this level.

House has 1,520 square feet, plus additional 640 square feet for storage in basement crawl space and attic. With 75x100 plot, it is priced at $19,625, including electric range and ventilating fan. Mayers has arranged to obtain other appliances for buyers adding cost to mortgage.





open-plan rancher in East Hartford

THE NEVADA is one of the most popular ranch styles using the same floor plan at Country Modern Estates in East Hartford, Connecticut. Designed and built by the Green Manor Estates organization of Manchester, Connecticut, as an example of open planning in lower-price range, it provides 1,064 square feet of livable space. With carport and a 10x10 storage room, it sells for $12,199.

Two-way fireplace and open shelf cabinets back up against the refrigerator and a York-Shipley porcelain-finished furnace unit to act as divider between living room, kitchen and rear hall leading to bedrooms. A deep, three-section bow window tends to increase the feeling of spaciousness in the living room.

Slab-built, the house is radiant-heated, has asphalt tile floors, wide closets with floor to ceiling sliding doors, a ceramic tile bathroom with Briggs fixtures, kitchen with Tracy stainless steel sink and wood cabinets with fluted glass sliding doors. All interior walls are treated with multi-color Plextone paint. Lighting fixtures are recessed in ceiling.

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HERE'S everything you want in a siding material. Plyaloy siding saves on-job time. It comes pre-cut—packaged "by the square" for convenience and protection.

Plyaloy siding is easy to install, has one of the finest paint surfaces you ever saw! Gives maximum protection against grain-raise or checking. All panels are standard 8' lengths. Ends are square; lower edge is beveled for drip. No trimming required.

For beauty that attracts buyers, durability that keeps them sold — specify PLYALOY pre-cut siding.

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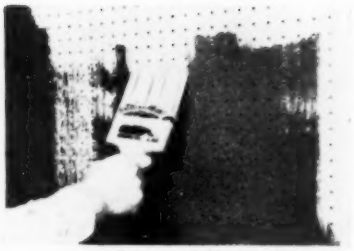

Courtesy of Masonite Corporation

Paint may be applied by brushing, spraying, dipping or by roller

how to paint "peg-board" panels

This material will take oil, water emulsion or bituminous paint, enamel, stain, lacquer, shellac, varnish, penetrating sealer, wax, synthetics and various special finishes.

To prepare the panels for painting, surfaces should be clean and dry. Warm water and mild soap can be used to remove dirt; carbon tetrachloride or naphtha to remove grease.

Primer may be clear or pigmented, but it must be suitable both for hardboard and for the coats to be applied later. For most painting or enameling work, a three-coat application is recommended.

For tinting "Peg-Board," these suggestions are offered: Brush on a paint of the desired color and wipe immediately with a clean cloth. Other materials which may be used are a non-grain-raising stain covered by a clear top coat of varnish or lacquer, color-in-oil thinned with turpentine, and a penetrating sealer with a dry pigment or color-in-oil added. Depending on the finishing material and the effect desired, application can be made by brushing, spraying, wiping, dipping or with a roller.

Special "Leatherwood" textured panels may be finished in solid or plain colors. An interesting effect can be obtained with a tone-on-tone finish which is a combination of any two colors. It consists of three coats: (1) a primer or sealer suitable for use with the intended second coat; (2) interior paint, enamel or lacquer of the desired over-all color; (3) glazing liquid with pigment added, or a toner.

The third coat, which is the color left in the depressions is brushed or wiped over the surface. Before dry, it is removed by wiping the surface lightly with a clean cloth.

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Attractive lines and a pleasant appearance are natural characteristics of swimming pools made of reinforced concrete. Such construction means lower costs and easier installation for home owners . . . represents a sound, long-term investment for operators of large-size pools.

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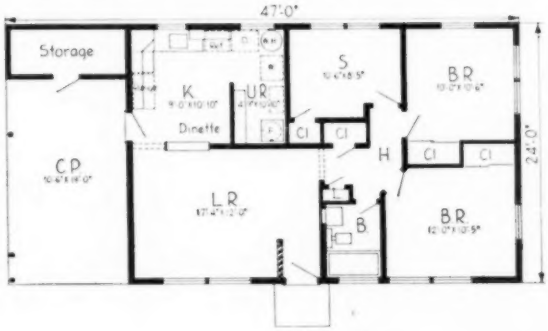
basement favored with this Omaha project house

WILSON & JOHNSON Company planned to build mostly slab houses in their Robin Hill Addition at Omaha, Nebraska. After starting 40 units and with sales well in advance of construction, they found that 70 per cent of the buyers wanted basements. Slab model was offered for $11,750, basement at $12,950. All units are equipped to take air conditioning for an added $985. Carports can be enclosed as garages for $400. Homes have Thermopane windows, Lennox gas furnace, Youngstown cabinets, General Electric garbage disposers. Buyers get choice of interior and exterior colors, including five styles of Johns-Manville Colorbestos siding.



AMERICAN BUILDER *Selected Homes* NORTH

a successful tract house in Dayton

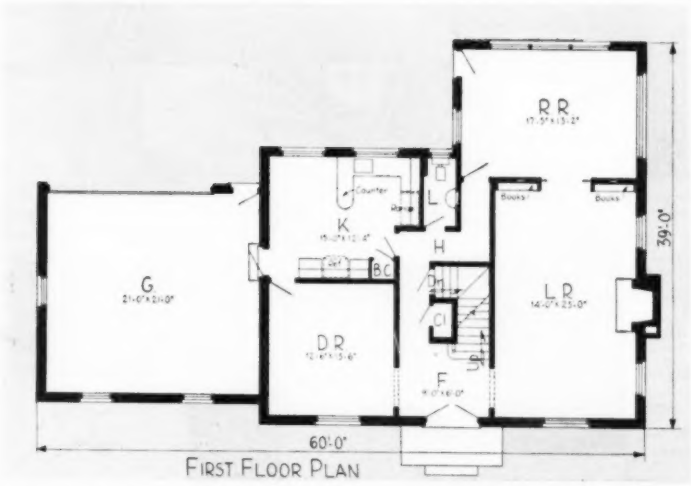
WENZLER BROS. Construction Company is selling this basic house at $17,900 in Dayton, Ohio, including a $2,500 lot. Buyer has a choice of several plans, with or without basement, also of decoration. Houses have Janitrol automatic heating unit, ceramic tile bathrooms.

Detroit area offers new expression for 4-bedroom Colonials

AMERICAN BUILDER *Selected Homes* NORTH

Second floor hall ceiling is framed and wired for attic exhaust fan, which can be installed for $225 extra

Nelson rates the following as "must" items for a house of this type: ample storage facilities in the kitchen, an adequate eating space located next to a kitchen window, a dining room with minimum dimensions of 12 by 13 feet. Main floor plan (below) shows how "Lauderdale Room" replaces the usual porch or terrace



THE Percy M. Nelson Company of Birmingham, Michigan has specialized in quality-built four-bedroom Colonials in the Bloomfield-Birmingham area near Detroit. Location is paramount for a house of its type. This one, in the Bloomfield Village subdivision, sold for $40,700 including a $4,000 lot. Architect was Victor J. Basso of Detroit.

Nelson gives this time-honored plan sparkle and newness by including a "Lauderdale Room," a general activities center off the living room, which replaces a porch. It has an Andersen casement Windowall glazed with Twindow, two lights of which open. Walls are paneled in knotty white pine, have a bleached stain and varnish finish.

Buyers of such a home are generally of conservative taste and have period furniture, according to the builder's experience. The Lauderdale Room gives them a chance to branch out into new contemporary furnishings without having to discard their traditional pieces, which are placed in the living room. This idea has real sales appeal.

The house has a Mueller Climatrol gas furnace. All basement walls are painted and the laundry is a separate basement room. Aluminum combination storm windows and screens; combination doors are of white pine. Doors are 1¾-inch birch slab. Large closet openings have bypassing doors on Sterling track. Interior locksets are Dexter polished brass, three butts on hinged doors.

LIGHTER, BRIGHTER HOMES with SHATTERPROOF

RESOLITE

TRANSLUCENT PANELS

for

- TERRACE COVERS
- AWNINGS
- PARTITIONS
- DECORATING

Fiberglas-reinforced panels are today's most talked about building material! What else transmits light, has the strength of metal, yet weighs only eight ounces per sq. ft.? Composed of *two-ounce* Fiber-glas mat, Resolite is the top-grade translucent structural panel.

RESOLITE, enthusiastically accepted as the finest industrial skylight, is becoming increasingly popular as a terrace or patio cover, awning, interior partition and decorative glazing.

RESOLITE is popular because it is shatterproof. Because it is quickly and easily installed with ordinary tools. Because it won't crack, rot, rust, warp or sag. RESOLITE improves transmitted light by softly diffusing harsh sun rays. It is available in eight beautiful colors and semi-clear.

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how to build 4-Bedroom houses for UNDER $11,500

Do *not* start with a fixed plan which you send out for bids.

Start with a 2-bedroom model which you know you can build and sell for a certain figure.

Then call in your subcontractors and tell them that you want to enlarge the 2-bedroom plan. Ask them what it will cost to add the extra footages and features you have in mind. Get them to sit down with you and figure actual costs, on the spot.

This way, the larger plan will simply be an extension of the 2-bedroom base, and you should find that final figures are at a minimum that will not be achieved otherwise.

The set of plans shown here demonstrates what has been accomplished by this method as used by Henry C. Cox and Affiliated Companies in Garden Grove, California.

Home Builders' Guide to Profits with New 1954

Westinghouse Appliances

Mr. Builder: Here's a concise, handy reference of appliances for house merchandising. There's a model and size for every home. Space requirement charts included for quick checking.

MODEL HG-4 (not shown)
4.0 cu. ft. capacity
Ideal for under-counter installations

MODEL HG-8 (shown at left)
7.8 cu. ft. capacity
24" Wide Cabinet
- Full-Width Freezer
- Frozen Storage Tray
- Lift-Out Half Shelf

MODEL HG-6 (not shown)
6.2 cu. ft. capacity
24" Wide Cabinet
Same features as HG-8 (above) plus 2 Lift-Out Half Shelves

MODEL DG-8 (shown at right)
8.0 cu. ft. capacity
24" Wide Cabinet
- Full-Width Vegetable Humidrawer
- Shelves-In-The-Door
- Full-Width Freezer
- Frozen Storage Tray

MODEL HSG-8 (shown at left)
8.0 cu. ft. capacity
24" Wide Cabinet
- **Shelves-In-The-Door**
- **Full-Width Freezer**
- **Frozen Storage Tray**

MODEL DG-9
(shown at right)
8.8 cu. ft. capacity
28" Wide Cabinet
- Full-Width Vegetable Humidrawer
- Shelves-In-The-Door
- Full-Width Freezer
- Frozen Storage Tray
- Self-Aligning Door Latch

WESTINGHOUSE REFRIGERATORS

Designed with the home builder in mind, these Refrigerators come in three standard widths of 24", 28" and 32". Eliminate fractional dimensions in your planning. Flush-type hinges available on certain 24" models where door swing must be held to a minimum. Choice of right or left-hand door opening on all models. Every model (except HG-4) has a big, full-width freezer that women prefer; striking arctic blue interior trim, and adjustable leveling glides. All have the famed Economizer Mechanism with proved 24-year record of low-cost operation and maintenance. Popular Frost-Free* models defrost themselves and dispose of defrost water automatically.

WESTINGHOUSE HOME FREEZERS

Leading builders today are keeping pace with homemaking trends by providing space for home freezers in their new homes. Westinghouse Home Freezers are ideal for kitchen installation because of their upright design. There's no waste of floor space, wall space, or sacrifice of cabinet arrangement. Exterior styling matches that of the Westinghouse Refrigerator. Available in 3 models:

UFE-85 (8.5 cu. ft. capacity), UFE-120 (12.0 cu. ft. capacity), UFE-180 (18.0 cu. ft. capacity).

REFRIGERATOR SPACE REQUIREMENTS
(All models available with either left or right-hand door opening)

Model	Height	Width	Depth Including Hardware	Depth Door Fully Open	Width 75° Door Opening	Shelf Area Sq. Ft.
HG-4	34½"	24"	27"	47⅝"	24"	8.0
HG-6	50"	24"	28¾"	48⅞"	26 1/16"	11.8
HG-8	56½"	24"	29 21/32"	48⅞"	26½"	13.6
HSG-8	56½"	24"	29 21/32"	48⅞"	26½"	13.6
DG-8	56½"	24"	29 21/32"	48⅞"	26½"	13.6
DG-9	57½"	28"	29⅞"	52⅞"	30½"	15.6
FG-84	57½"	28"	29⅞"	52⅞"	30½"	14.2
DFG-87	57½"	28"	29⅞"	52⅞"	30½"	14.7
DFG-105	59¼"	32"	28 15/16"	56⅞"	34½"	17.6
DFG-123	65½"	32"	28 15/16"	56⅞"	34½"	19.4
TFG-116	65½"	32"	29⅞"	56⅞"	34½"	19.5

HOME FREEZER SPACE REQUIREMENTS
(All models available with either left or right-hand door opening)

UFE-85	57½"	28"	29⅞"	52⅞"	31½"	11.4
UFE-120	65½"	32"	29⅞"	56⅞"	35½"	13.7
UFE-180	67⅞"	36"	31"	62⅝"	38⅛"	18.6

FROST-FREE AUTOMATIC DEFROSTING MODELS

FG-84 8.4 cu. ft. capacity
Same features as Model DG-9 (shown at left) with addition of Frost-Free Automatic Defrosting.

DFG-87 8.7 cu. ft. capacity
De Luxe Frost-Free with all features of FG-84 plus Meat Keeper, Roll-Out Shelf, Fruit Bin, and Butter Keeper.

DFG-105 10.5 cu. ft. capacity
De Luxe Frost-Free with all features of DFG-87 plus Cheese File, Snack Keeper, Egg Keepers, two Vegetable Humidrawers, and Magic Opener for door.

DFG-123 12.3 cu. ft. capacity
De Luxe Frost-Free with all features of DFG-105 plus exclusive Beverage Keeper, and two Roll-Out Shelves.

TFG-116 11.6 cu. ft. capacity
De Luxe Frost-Free with separate 2.2 cu. ft. Freezer. Refrigerator has Meat-Keeper, two Roll-Out Shelves, two Vegetable Humidrawers, Egg Keepers, Butter Keeper, Snack Keeper, Cheese File, and Fruit Bin.

*Trade Mark: U. S. Patent Issued, Nos. 2,459,173 and 2,324,309.

YOU CAN BE SURE...IF IT'S Westinghouse

FOR EASIER SELLING INSTALL

DWB-480SC

WESTINGHOUSE ELECTRIC DISHWASHERS

Here is a Dishwasher styled to combine beauty with utility. The front-opening, top-loading design offers unbroken work surface. There's more capacity than any other make, yet it's only 24" wide.

Available in five models: 48" units, in Dishwasher-Sink combination and without sink top and fixtures for custom installation; 24" Cabinet model, 24" Under-Counter model, and Portable model.

Dishwasher connects to the sink drain line. Eliminates need for separate drain line and trap. Operates on 110-120 volts, a-c.

DISHWASHER SPACE REQUIREMENTS

Model	Width	Height	Depth Including Hardware	Depth Drawer Open
Under-Counter, DWB-13	24"	34½"	26⅛"	42½"
Cabinet, DWB-24	24"	36"*	26⅛"	42½"
Portable, DW-24P	24"	36"*	26⅛"	42½"
Dishwasher-Sink, DWB-480SC**	48"	36"*	26⅛"	42½"

*Add 4" for backsplasher.
**Available less top, sink, and sink fixtures. Order Model DWB-4850.

DWB-13

A-1B

WESTINGHOUSE FOOD WASTE DISPOSER

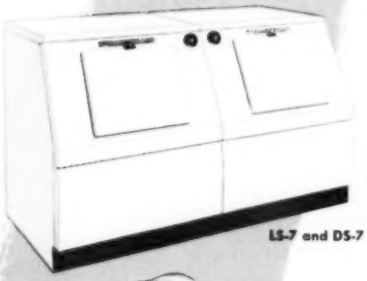
New in every way and amazingly low in price, this appliance adds "buy appeal" far in excess of actual cost. This high quality Westinghouse Disposer shreds all food waste, even bones, and washes it down the drain and out of the house. Performs equally well when connected to city sewer lines or septic tanks.

Easily and quickly installed in cast iron, formed metal or enameled sheet steel sinks with 3½" to 5½" drain openings. Requires only 7⅛" between bottom of sink bowl and center line of drain line in wall. Plugged opening permits Westinghouse Dishwasher to drain through Disposer. Operates on 110 volts, a-c.

A-1B Dimensions: 8 7/16" wide x 10⅞" deep x 13 9/16" high.

WESTINGHOUSE LAUNDRY EQUIPMENT

People like the convenience these famous appliances offer, especially when the house is small and washing and drying facilities limited. You can provide a complete laundry in only 5 ft. 3 in. of floor space, regardless of models selected.



LS-7 and DS-7

LS-7 LAUNDROMAT®

A completely automatic Westinghouse Laundromat, at a new low price. Features an extra large door that forms a handy loading shelf; slanting front for easy loading; flexible Control Dial that permits starting, stopping or repeating any part of the washing or rinsing cycles. Operates on 110/120 volts, a-c.

DS-7 CLOTHES DRYER

It's a low-priced matching twin to the LS-7 Laundromat. Flexible Control Dial permits completely automatic operation. Safe for miracle fabrics. May be vented from side or rear. Can be converted from 115/230-volt to 115-volt operation.

LB-6 LAUNDROMAT

This model has all the basic features of the lower-priced Model LS-7 *plus* greater eye appeal and two tremendously popular consumer features: the Weigh-to-Save Door, which measures the weight of the load; and the Water Saver which controls the amount of water used, saving water and soap. Operates on 110/120 volts, a-c.

D-6 CLOTHES DRYER

A "twin" to the LB-6 Laundromat. It has greater eye appeal than the lower priced DS-7 Clothes Dryer, the exclusive "Dry Dial", Pop-Up Lint Trap, plus the added feature of the Singing Signal that chimes when the Dryer shuts off. Can be vented from side or rear. Can be converted from 115/230-volt to 115-volt operation.

RL-1A LAUNDROMAT

The bolt-down, economy version of the LS-7 operates in exactly the same manner and does the same fine washing job. Does not have the Weigh-to-Save Door or Water Saver. Operates on 115 volts, a-c.

RL-1A

LB-6 and D-6

LAUNDROMAT AND CLOTHES DRYER SPACE REQUIREMENTS

Model	Width	Height	Depth	Depth With Door Open
LS-7	31"	36½"	27¼"	42¼"
LB-6	31"	36½"	27¼"	42¼"
RL-1A	27¾"	35¾"*	23¾"**	30⅜"
DS-7	31"	36½"	27 7/16"	42 7/16"
D-6	31"	36½"	27 7/16"	42 7/16"

*Removal of plastic fill pipe permits installation under standard-height counters.
**Allow a minimum of 3" from back of appliance to wall for plumbing connections.
LB-6 and LS-7 can be flush mounted by use of a special bracket available as an accessory.

Westinghouse Appliances

Quality Electric Appliances for the Home

WESTINGHOUSE SPEED-ELECTRIC RANGES

The impressive list of features that were *first* introduced by Westinghouse in the electric range industry have made these ranges hot promotional items for builders, year after year. To mention a few: FIRST with Super Corox® Unit, a Surface Unit that gets hot instantly, RED HOT in 30 seconds; FIRST with a Miracle Sealed Oven that assures perfect baking results every time in any rack position; FIRST with the exclusive Electronic Unit . . . the world's first completely automatic surface unit.

The new 1954 Westinghouse Speed-Electric Ranges lead in features and styling. There is a model and size for every need. All are simple to install, requiring only the usual 230-volt, a-c range circuit.

COMMANDER MODEL BG

This de luxe Range has the exclusive Electronic Unit that remembers your cooking even if you forget. It's so positive in temperature control that even if the pan boils dry FOODS CAN'T BURN. Also has the Super Corox Unit that gets RED HOT in 30 seconds . . . Plug-in Surface Units to speed cleanup . . . a Giant Miracle Sealed Oven that bakes perfectly in any rack position . . . beautiful Color-Glance Controls . . . a Two-Level Speed Cooker for fast French frying or use as a fourth surface unit . . . Built-in Oven Timer, three large aluminum Storage Drawers — including a Warmer Drawer — on nylon rollers.

CHAMPION MODEL DG

Beautifully styled. Has a Super Corox Unit, Giant Miracle Sealed Oven, Plug-in Surface Units, Two-Level Speed Cooker, Color-Glance Controls and Electric Minute Timer. Also has Automatic Appliance Outlet, Built-in Clock and Automatic Oven Timer and three large aluminum Storage Drawers on nylon rollers.

RANGE SPACE REQUIREMENTS

Model	Width	Height*	Depth With Door Open
BG	40"	48⅞"	42½"
DG	40"	44 1/16"	43"
EG	40"	44 1/16"	42½"
FG	30"	46¼"	44¼"
GG	30"	46¼"	44¼"
HG	40"	43⅞"	42½"
KG	21"	40"	43¾"
LG	21"	40"	43¾"

*To top of backsplasher.

COMMODORE MODEL EG

A completely automatic Range with famous Miracle Sealed Oven and Built-in Clock and Timer. Has three fast Corox® Units plus 6-qt. Econo-Cooker . . . Tel-A-Glance Controls, Automatic Appliance Outlet and three large Storage Drawers on nylon rollers.

IMPERIAL 30 MODEL FG

A spacesaving Range with deluxe features that takes only 30 inches of floor space. Features a King Size Miracle Sealed Oven with Look-in Door and Oven Light. Has Super Corox Unit plus three other speedy Corox Surface Units, Built-in Clock and Oven Timer, Automatic Appliance Outlet, Electric Minute Timer and one extra-large Storage Drawer on nylon rollers.

"THIRTY" MODEL GG

This new spacesaving model is also only 30" wide. Has four fast-heating Corox Surface Units and King Size Miracle Sealed Oven, Tel-A-Glance Controls, Appliance Outlet and extra-large Storage Drawer.

MODEL HG

Here's a full-sized electric Range with a True-Temp Oven, four fast Corox Units, Tel-A-Glance Controls plus built-in Appliance Outlet. Big Storage Drawer has space for everyday pots and pans.

CORONET MODELS KG and LG

Apartment House Models

KG only 21" wide. Has four full-sized Corox Surface Units, large True-Temp Oven insulated on all six sides, Appliance Outlet and Titanium Porcelain Range Top.

LG same as model KG except that this Range has three Surface Units instead of four.

FAMOUS BUILT-IN QUALITY

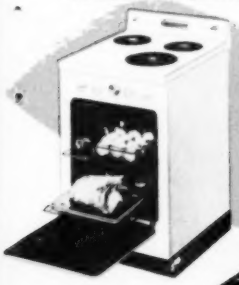
All Westinghouse Ranges have one-piece welded range bodies, cooking platforms of titanium porcelain bonded to Ti-Namel steel, and zero ratings by Underwriters' Laboratories for flush installation.

Model BG

Model DG

Model EG

Model FG



Model LG

Model KG

Model HG

Model GG

Westinghouse Appliances

Ahead in Design · Features · Sales Appeal

WESTINGHOUSE ELECTRIC WATER HEATERS

Westinghouse Water Heaters can be installed anywhere—basement, kitchen, utility room, alcove, closet. Need no vent or flue. They can be installed nearest point of greatest use, an economy advantage that eliminates long pipe runs.

All Westinghouse Water Heaters carry a liberal 10-Year Protection Policy against tank failure. All have economical, efficient, direct-immersion heating elements; accurate, automatic temperature control, and Fiberglas insulation.

DE LUXE MODELS — In 10, 30, 40, 52, 66 and 80-gallon capacities, with single or double heating elements.

TABLE-TOP MODELS — in 30, 40 and 50-gallon capacities, single or double heating elements. Porcelain enamel platforms with four-inch backsplashers provide standard-height work surface. Can also be installed under custom work surface. New 50-gallon size requires no more space than the 40.

WATER HEATER SPACE REQUIREMENTS

De Luxe Models	Capacity	Height	Diameter
CF10D	10 gal.	29¾"	18¾"
CF30D	30 gal.	55⅝"	20¾"
CF40D	40 gal.	55¾"	23¾"
CF52D	52 gal.	59¾"	25¾"
CF66D	66 gal.	59⅝"	27¾"
CF80D	80 gal.	69⅞"	27¾"

Table-Top Models	Capacity	Height*	Width	Depth
AF30T	30 gal.	36"	21"	25"
AF40T	40 gal.	36"	24"	25"
AF50T	50 gal.	36"	24"	25"

*Add 4" for backsplasher.

POWERAIRE® VENTILATORS

with exclusive, Super-Safe, Super-Quiet Hemcolite* S-R Blades

MODEL 8PHV2—A prime objective of house prospects is a clean, comfortable kitchen or laundry. You can count upon Westinghouse Poweraire Home Ventilators to provide this. Easily installed . . . adjustable wall sleeve accommodates all standard wall thicknesses. One-piece steel grille is easily removed for cleaning.

MODEL 8PCV2—The ceiling ventilator uses a separate remote control switch to be provided by contractor. Heavy sheet steel adapter permits easy assembly to a standard 8" diameter duct, if required.

Both models are powered by a Westinghouse brushless, 2-pole, induction-type motor, and are economical to operate with individually self-aligning, porous-sleeve bearings.

Catalog No.	Blade Size Inches	Volts	Cycles	Speed RPM	Air Delivery CFM **	Air Delivery CFM ***	Watts	Approx. Shipping Wt.—Lbs.
8PHV2	8	115	60	1900	300	500	52	12½
8PCV2	8	115	60	1900	300	500	52	10

OVER-ALL DIMENSIONS — (See installation and instruction leaflets, IL-11297 and IL-11298.) Watts, rpm, and air delivery may vary 10% from values shown.
*T.M.
**By Standards of National Electrical Manufacturers Assoc.
***Free air capacity.

WESTINGHOUSE ROOM AIR CONDITIONERS

This new product in the 1954 Westinghouse line is rapidly becoming a "wanted" item in today's homes. Westinghouse has 5 models available. They require no building alterations, no pipes, ducts, or drains. Any model can be installed from inside, and will extend only about 9½ inches into the room. They will fit any standard double-hung window. Their smooth modern styling, and two-tone Rose-Beige finish harmonize with any room decor.

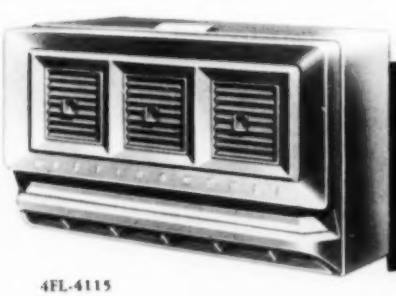
All models have the Exclusive Westinghouse Comfort Control. The De Luxe Units have pushbutton controls for ten completely different comfort zones. Special Units have dial-type controls for six comfort zones. The entire control panel is concealed under the lid of the unit, free from dust and prying fingers.

Accoustical and thermal insulation is properly applied for maximum performance and quieter operation in these room air conditioners. The easily accessible air filter can be quickly replaced. All units have adjustable draft-free grilles which can be turned independently to maintain draftless air flow in any one of four directions.

One-year warranty is given on the entire Room Air Conditioner, including cabinet and accessories. An additional 4-year warranty covers the complete Hermetically-Sealed Refrigeration System. Plugs into any adequately wired standard outlet. Complies with all existing electrical codes, and is listed by the Underwriters' Laboratories, Inc.

Five Models for Every Size Room:

Special Models: ½ hp, Model AW-50; ¾ hp, Model AW-75. DeLuxe Models: ¾ hp, AW-75D; 1 hp, Model AW-100D; 1½ hp, Model AW-150D



For additional information or specifications, contact your nearby Westinghouse Distributor, or write to WESTINGHOUSE ELECTRIC CORPORATION, Electric Appliance Division, Mansfield, Ohio.

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Now get cast-iron, steel, and china fixtures for bath, kitchen, laundry, plus all brass fittings from one source of supply.

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The same smart Eljer colors on all three materials . . . for example, you can match an *iron* bath, *steel* lavatory and *china* toilet with color harmony.

3

Famous-Name Merchandising!
Get the extra sales appeal of "Eljer plumbing fixtures throughout the house" or commercial building!

4

Easy Ordering, Better Service!
Select from *one* catalog, enjoy the better *service* of one reliable source of supply for all plumbing fixtures and fittings.

Add up these benefits! The wide selection of styles, materials, and colors; the merchandising, ordering, and new delivery advantages make Eljer easily the wisest choice for you. For all the facts, see your Eljer distributor or write Eljer Co., Box 192, Ford City, Pa.

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ELJER—THE ONLY NAME YOU NEED TO KNOW IN PLUMBING FIXTURES

news

ON THE NATIONAL FRONT

Hearings Continue on 1954 Housing Bill

The House Banking & Currency Committee began hearings March 2 on the Administration's 1954 housing bill—that long-awaited legislation designed to produce more new homes, clear slums and generally improve the nation's housing.

Provisions of the bill, grouped under eight titles, include proposals for more liberal FHA insurance, for flexible interest rates, a rechartered Fannie Mae, open-end mortgages and low-rent housing (for a complete rundown of the bill, see March, 1954 *American Builder*, pp. 39-42).

Details of the new bill did not come as a surprise. President Eisenhower's special message on housing, which went to Congress late in January, had indicated the extent and nature of the forthcoming legislation.

Congress received the housing proposals February 12, when Senator Capehart (R.-Ohio) and Representative Wolcott (R.-Mich.) introduced an identical bill in the Senate and House. Although initial hearings got under way early last month, final passage of the legislation still is several weeks away.

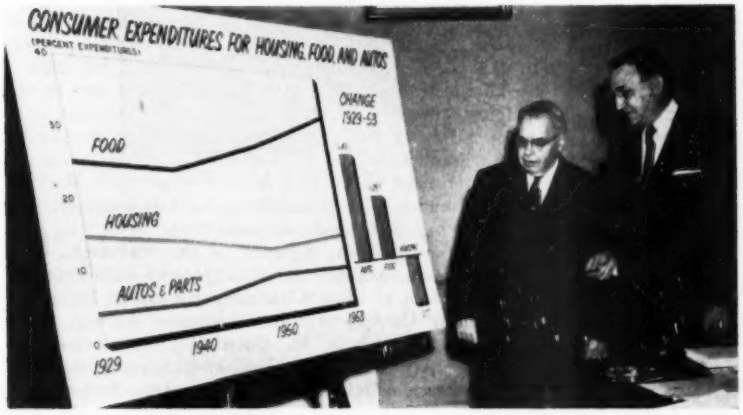
A general endorsement of the overall bill by HHFA Administrator Albert M. Cole highlighted opening sessions before the House committee. Cole considers the proposed legislation "a vigorous and stimulating approach" to the job of assisting people obtain good homes and good neighborhoods.

First reaction to the legislation by the home building industry was one of cautious support. The National Association of Home Builders issued a statement endorsing "the principles and objectives" of the housing bill. But NAHB had reservations about the secondary mortgage market facility the bill would create.

"The bill's proposal for re-establishment of a secondary mortgage reserve facility would appear to be ineffective in its present form," NAHB declared. The association added, however, that it was "confident" this provision can be amended in Congress.

More Lumber May Be Used In the '54 House

A top official in the wood products industry recently predicted that lumber will play a greater role in home construction in 1954. "The prospects are that as much lumber may be used to build about 1,000,000 new non-farm dwelling units this year as was used to build 1,100,000 units in 1953," declared Leo V. Bodine, executive vice president of the National Lumber Manufacturers Association.



Rep. Jesse P. Wolcott of Michigan, House Banking and Currency Committee chairman, listens as R. G. "Dick" Hughes, National Association of Home Builders president, reviews March 15 testimony on Administration's housing bill

FHA Repays Treasury For All Funds Advanced

The Federal Housing Administration reports it has repaid the government all the money which was advanced to set up FHA insurance programs.

Approximately $85,850,000 has been repaid to the U.S. Treasury, FHA said in a recent report. This included $65,500,000 in principal and $20,350,000 interest. The agency said interest was paid from the date of the initial advance of funds by Treasury, and the rate was 2¼ per cent.

FHA noted that since 1940 all its operating expenses have been paid out of income. Total insurance written by FHA passed the $30 billion mark at the end of last year.

The PHA commissioner said 35,000 units may be "inadequate," but it represents a figure of "practical possibility."

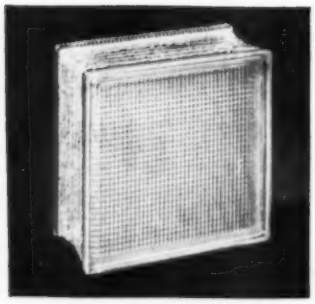
Slusser called upon local housing authorities to make the best of the situation by concentrating on the quality of housing they build. He said he believed public housing would play a "major role" in the growing attack on slums.

Open End Mortgage Idea Spreads to N. Y. Life

The open end mortgage movement received a decided boost recently when one of the nation's largest insurance companies announced its adoption. R. Manning Brown, second vice president of the New York Life Insurance Company, made the disclosure at the Mortgage Bankers Association of America midwestern conference in Chicago.

Under the open end mortgage, a home owner can reborrow part of the principal he has already paid off at the same rate and terms of the original loan. This money is generally used for repair or modernization of property.

Brown estimated that $3 billion was spent by home owners in 1953 that could have been covered by open end mortgages.



Use this glass block for *insulated* daylight with privacy

LIGHT, beauty and insulation with privacy where it's wanted most. That's what a panel of Owens-Illinois Glass Block No. 365 will bring to any bathroom.

And, glass block panels have many other advantages. They're easy to handle, easy to install . . . no special gadgets are needed. They can be made to fit any size opening . . . no frame is necessary. They never need to be painted or puttied.

Literature for any glass block application is available free of charge. Write Glass Block Division, Owens-Illinois, Department AB-4, Toledo 1, Ohio.

OWENS-ILLINOIS

GENERAL OFFICES TOLEDO 1, OHIO

NEWS

Biggest National Home Week Will Be Held Sept. 19-26

The building industry's most successful promotion—National Home Week—will be celebrated September 19-26 inclusive, this year, reports the National Association of Home Builders.

Several thousand new homes replete with new ideas and valued at approximately $100,000,000 will be on display in all principal cities, according to R. G. "Dick" Hughes, president, who predicted the observance would surpass all previous efforts. Millions of people are expected to participate in the celebration which, in many cities, will take the form of a "Parade of Homes"—an entire street or section of exhibit houses.

How can National Home Week promotion specifically benefit you? *American Builder* is now preparing a fact-filled primer of information designed to show home builders and lumber dealers how they can participate in this most successful of all industry observances. Be sure to read it in the June issue.

National Home Week is designed primarily to demonstrate the advantages of home ownership and the latest developments in home construction methods. It was conceived by Edward G. Gavin, editor of *American Builder*, in 1947, and adopted by NAHB the following year.

"Home builders this year," Hughes said, "will offer the finest new houses yet produced in America, in planning, arrangement, design and construction. We have set our sights on the production of 1,400,000 new homes a year in all price ranges, and National Home Week will help highlight what we are doing."

Mack Leaves FHA to Head Eastern Mortgage Firm

The resignation of Curt C. Mack, for 15 years a key official of the Federal Housing Administration, was announced in mid-March by FHA Commissioner Guy T. O. Hollyday. Mack leaves government employ to accept the presidency of an eastern mortgage and real estate company.

He had served FHA since 1938, his last position being that of assistant commissioner in charge of underwriting. In this post, he directed all underwriting activities of the administration, covering the mortgage insurance on one- to four-family homes and large scale rental housing units.

Commissioner Hollyday eulogized Mack's contributions to the development of FHA-insured mortgage programs, which were still in the experimental stage when Mack began his service with the agency. No announcement of a successor had been made at press time.

Richard L. Steiner, director of the Baltimore Redevelopment Commission, has been appointed deputy director of the Division of Slum Clearance and Urban Redevelopment of the Housing and Home Finance Agency, it was announced by Albert M. Cole, HHFA administrator. Steiner's service with the Baltimore group since 1946 included responsibility for carrying out the program of slum clearance and urban redevelopment in that city.

Prior to the war, he served three years with the former U.S. Housing Authority in Washington, D.C., as a project planner.

Painting Apprentices Replacing Only 20 Per Cent of Losses

A seriously inadequate supply of trained journeymen to meet the needs of the painting trade was reported by retiring president Richard H. Bohl at the 70th annual convention of the Painting & Decorating Contractors of America. The group held a four-day session in Los Angeles, elected William Gelfan, Los Angeles painting contractor, president for the coming year. Other officers named were George Steinheimer, Omaha; Ray Elvart, Chicago; John Cody, Nassau, N.H.; Harry Helzer, Cheyenne, Wyo., all vice presidents, and John Burns, Portland, Ore., treasurer.

Bohl stressed that "apprenticeship is a sound and proven method for training . . . skilled journeymen to meet the needs of the trade. Statistics of the Department of Labor, Bureau of Apprenticeship, show approximately 3,400 apprentices in training as of Sept. 30, 1953. . . . It is estimated that apprentices trained under the present program are not replacing more than 20 percent of the losses incurred through death, retirement and other causes."

Emphasizing the need for effective selling, Bohl said: "painting contractors have been slow to adopt the time payment plan. One of the most effective ways of meeting price resistance (in home owners) is to sell painting and decoration on a small down payment and monthly installments. . . . The home owner of modest income is accustomed to buying on the installment plan."

The retiring president blamed labor's reticence in adopting many newly developed time and labor saving devices as a leading factor in accelerating the "do-it-yourself" movement.

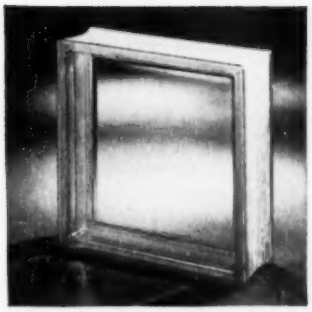
Woodwork Manufacturers Elect Long-Bell's Gibson as President

L. L. Gibson of the Long-Bell Lumber Company, Kansas City, was elected president of the National Woodwork Manufacturers Association at its 27th annual meeting

L. L. Gibson

held recently in Chicago. Three new directors were also named: George M. Curtis, Curtis Companies, Inc., Clinton, Iowa; K. N. Bergsbaken, Northern Sash & Door Company, Hawkins, Wis., and A. C. Moss, Keystone Frame & Manufacturing Company, Spokane, Wash.

Projects for 1954 include: 1. Completion of standards, with tests, for hollow core doors. 2. Revision of standard door guarantee and instructions for the proper care and finishing of woodwork. 3. Sound test for doors. 4. Revision of test for water repellent preservative treatment solutions. 5. Study of foreign competition and the importation of doors, plywood and veneers.



Use this glass block for *insulated* daylight with vision

Glass Block panels are as practical as they are beautiful. Here a panel of Owens-Illinois Glass Block No. 370 provides an attractive wall you can "see through."

No storm windows are needed to keep the clarity of glass block. They won't frost or sweat in winter. They provide better insulation than a window with storm sash. Owens-Illinois Glass Block are easy to handle, easy to store, hard to break.

For facts about the many ways you can use glass block to advantage, write for the information you need to: Glass Block Division, Owens-Illinois, Dept. AB-4, Toledo 1, Ohio.

OWENS-ILLINOIS

GENERAL OFFICES TOLEDO 1, OHIO

Money Flow Seen Leading To New Wave of Housing

Our next great advance in housing is coming through an improved flow of mortgage money, Ronald J. Chinnock, president of the National Association of Real Estate Boards, declared in a speech at Jackson, Miss.

Maldistribution of available mortgage funds has been a retarding influence during the past year," Chinnock said. "Fortunately," he added, "the situation has been improving in recent months . . ."

"We have a constantly expanding demand for home buying credit that to some extent has outgrown our system of meeting this kind of demand," Chinnock continued. He noted that President Eisenhower has asked Congress to establish a secondary mortgage market facility, and he said adoption of this idea would bring "a long-needed improvement in our system of home financing."

New Jersey Plans State-wide Drive; Builders Start Anti-Slum Conferences

More than 500 municipal officials and civic leaders from 30 eastern cities are scheduled to meet in Trenton, N.J., April 12-14 for instruction on how to cope with the slum problem in their respective communities.

The three-day meeting is the first of a series of "Cities Organized Reconstruction" schools to be conducted by the National Association of Home Builders in cooperation with the New Jersey State Home Builders Association and local affiliates. A midwest school will be held later in Columbus, and a third is scheduled for the west coast.

The objective of the school is to provide the widest possible dissemination of information on procedures recommended for fighting the slum menace.

New Jersey Governor Robert F. Meyner will discuss plans for a state-wide slum rehabilitation drive, the first to be undertaken in the United States. Under the new program, the state will provide technical assistance and trained personnel to communities actively engaged in slum rehabilitation.

Home Values Unaffected by Airport Proximity

Contrary to general belief, residential values are not adversely affected by proximity to municipal airports, according to Herman O. Walther, M.A.I., and real estate analyst, in a recent statement in the "Appraisal Journal."

He based his conclusion on a study of properties lying within one mile of Chicago's Midway Airport, in which the sale prices, number of transactions and volume of home construction in the area from 1940 to 1952 were analyzed and compared with the same factors found in two comparable areas beyond the airport's influence.

VA Direct Loan Program Up for Year's Extension

The House Veterans Committee has approved a bill to extend the VA direct home loan program another year, from June 30, 1954, to June 30, 1955.

The new bill would authorize another $100 million for the "revolving fund" from which VA makes direct home and farmhouse loans to veterans. These loans, subject to a maximum of $10,000 each, have been limited to "outlying areas."

Dickerman's Column

John M. Dickerman, Executive Director, National Association of Home Builders of the United States

Favorable Washington Attitude Stimulates Builders' Promotions

The importance of the housing industry as a bulwark against depression has again been underscored in Washington, where Congress is giving priority to legislation aimed at maintaining a high rate of residential construction and extending home ownership to a broader segment of the American people. What action Congress will finally take is uncertain at this writing, but President Eisenhower has left no room for doubt that housing has been assigned a major role in his efforts to keep unemployment down and the economy running in high gear.

No fewer than 16 separate Federal agencies concern themselves directly with home building today, and the statistics they issue periodically on housing production, sales, costs and trends are scanned carefully by Administration officials and members of Congress as a sort of barometer of general business conditions. In addition, a wealth of information assembled by the National Association of Home Builders showing how housing directly affects every major industry and the lives of all our citizens is welcomed by Capitol Hill and in Government offices.

What does all this flattering attention mean to the individual home builder? For one thing, it is unmistakeable evidence that home building, which less than a generation ago was a disorganized trade with little or no national stature, has moved up to the front rank of the country's giant industries. It has attained a powerful and progressive voice in the affairs of the nation and its counsels are not only welcomed but actively sought by our Government leaders. For another, it places extra responsibility upon the builder to improve his merchandising, design and construction so that he can do his full share toward maintaining employment and prosperity in his own community. It also creates an unprecedented opportunity for builders to assume a greater degree of leadership in their communities. Only through such leadership can they hope to bring about badly-needed reforms of archaic building codes and regulations which, because of public and official apathy, have so long hampered the growth and progress of the housing industry.

Horner Heads Ponderosa Pine

F. A. Horner (left), president of Rockwell Sales Associates, Chicago, is congratulated by R. H. Morris, general manager of Ponderosa Pine Woodwork on Horner's election as association president. Other officers include Paul W. Curtis of J. Neils Lumber Co., Minneapolis, vice president; J. D. Rowland, vice president of the Andersen Corp., Bayport, Minn., treasurer; and Loyde S. Blakely, Brooks-Scanlon, Inc., Bend, Oregon, secretary

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For "ALL-TILE" BEAUTY

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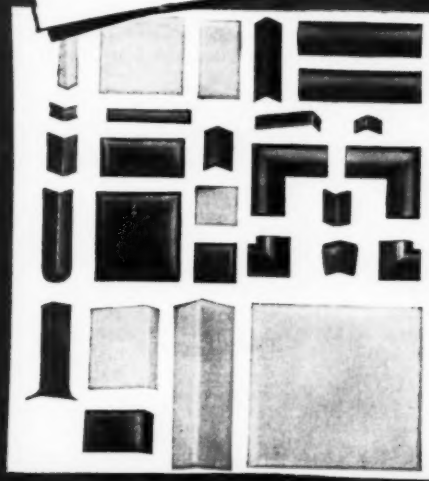

29 ASSORTED TILE PIECES

Field Incorner
Field Tile
Half or Cap Tile
Field Outcorner (narrow)
Offset Bullnose Cap
Bullnose Cap
Stripe Incorner
Stripe
Stripe Outcorner (wide)
Stripe Outcorner (narrow)
Cap Incorner
Cap or Half Tile
Cap or Half Outcorner (narrow)
Bullnose Cap Butterfly
Bullnose Cap Incorner
Bullnose Cap Outcorner
Base Incorner
Base Tile
Quarter Tile
Base Outcorner
Field Outcorner (wide)
Cap Outcorner (wide)
8½" Outcorner
8½" Panel Tile
8½" Brick Style

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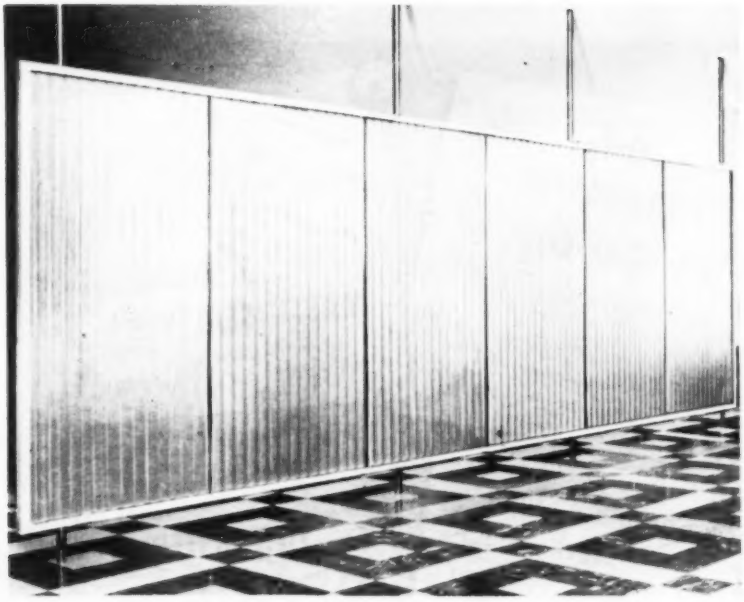


Mounted "Sturdalite" panel, showing use of manufacturer's Seal Strip, which joins butting sheets of panel, avoids lapping

DECORATIVE PLASTICS AB45409

Laminated plastics in 65 colors, 38 of them completely new, have been introduced to coordinate kitchen surfaces with current developments in fabrics, paints and floor coverings, and to provide plastics that lend themselves to furniture, walls and built-ins throughout homes. The line features 18 solid colors, Italian marble patterns, geometrics of tone-on-tone squares placed at random on white ground

(shown is "Cocoa Capri," one of the new geometrics), textured and linear patterns.

The new "Sunrise Color" line has been styled by Raymond Loewy Associates, after an intensive market survey of the manufacturers' distributing organization and present style trends. All designs are produced in polished and satin finishes. Sheets are made in 2-, 2½-, 3- and 4-foot widths and in 5-, 6-, 7-, 8- and 10-foot lengths. Any combination of these widths and lengths is available. The Formica Co., Dept. AB, 4614 Spring Grove Ave., Cincinnati 32, Ohio.

FIBER GLASS-PLASTIC BUILDING PANEL AB45401

This shatterproof, translucent building panel of fiber glass and polyester plastic is stated to have exceptional strength, light weight and diffusing qualities. It is suitable for many structural and decorative purposes, including skylights, canopies, garage roofs, partitions and bathroom enclosures.

Available in corrugated or flat sheets of six- to 12-foot lengths, 26 to 40 inches wide, the material, called "Sturdalite," is designed to nest with corrugated metal of standard pitch, eliminating need for window frames. The panel is corrosive-resistant, will not crack, craze nor fade, and can be worked with ordinary hand or power tools. It is furnished in seven stock colors and custom colors on larger orders. Wright Manufacturing Co., Dept. AB, P.O. Box 6567, Houston, Texas.

DOOR OPERATOR AB45404

A new remote control door operator, equipped with continuous shaft torsion spring hardware, is designed for overhead sectional doors up to 16x7 feet. The operating unit is completely integrated and is attached to a flat mount-

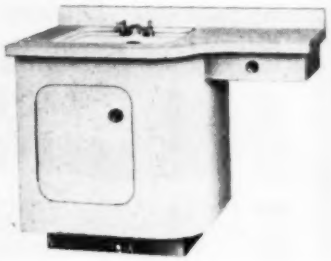
ing surface adjacent to the door. Unit also provides for simultaneous turning on and off of garage lights.

Included with the unit is a remote car control set, consisting of a garage receiver, auto transmitter, loop antenna and car push button. When the unit is in operation, the garage door can be opened from a distance of 40 to 75 feet. Driver need not stop or leave car. H. W. Crane Co., Dept. AB, 1443 W. Lake St., Chicago 7, Ill.

BATHROOM VANITY AB45411

Complete line of bathroom vanities is designed as economical built-in features for new homes. Called "Vanity Fair," the new line is stated to incorporate design and construction details for comfortable use and easy maintenance—ample surface room, spacious storage areas, rounded corners and a variety of colors and patterns in Formica.

Important to the builder, the line is available with or without sink and fittings. The model shown is a 42-inch single pedestal vanity with drawer; the



builder may specify whether the sink is to be at left or right. National Vanity Co., Div. of National Door Co., Dept. AB, 163 Ave. A, Bayonne, N.J.

♦ FOR MORE INFORMATION USE COUPON ON PAGE 52

MARVAIR gives you the tremendous sales appeal of AIR CONDITIONING . . . even in LOWEST-COST homes!

AIR COOLED . . . No Ducts, No Plumbing, No Floor Space

Here is your answer to the universal demand for *complete* home air conditioning at budget prices! The MARVAIR Air-Cooled Air Conditioner can be included in any conventionally built one-story home with a central hall, *at sensationally low first cost and installation cost!*

SANDS OF NATIONAL HOMES . . . NOW BEING INCLUDED IN THOUas featured in the New 1954 "Ranger" shown below.

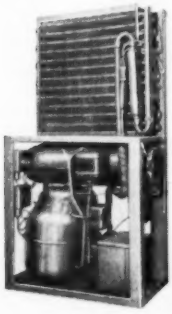
No ducts, no plumbing, no water-main connection and no hookup with the heating plant are required for this amazing unit. It may be installed with either wet or dry heat since it operates independently of the furnace. Using no water, it is a boon in drought areas. Elimination of ducts reduces installation cost to a minimum.

Of prime importance to the home buyer, MARVAIR takes up no precious floor space. It is located between ceiling and roof, in space normally wasted.

Available Through Your Jobber

Guaranteed to give satisfaction—the MARVAIR refrigeration circuit is covered by a 5-year warranty; all other parts for one year. From every angle, this revolutionary new air conditioner is ideal for you . . . ideal for the home owner. Whether you build projects or custom, it will pay you to investigate MARVAIR!

Designed to conform to all FHA-VA requirements



Write or Wire Today to:

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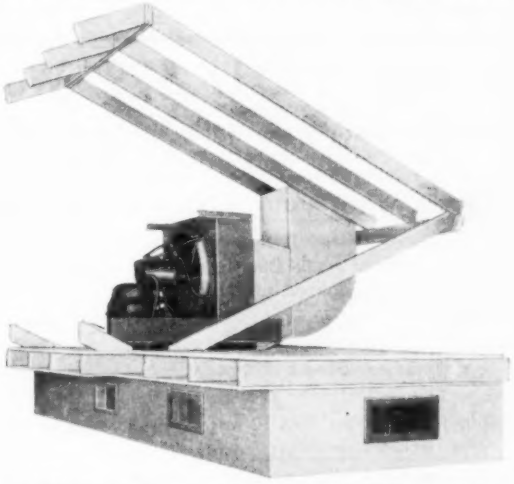
of Muncie Gear Works, Inc.
Muncie, Indiana

BASED ON REVOLUTIONARY NEW IDEA!



Here's How the Marvelous MARVAIR *Works: Outside air is drawn in through roof vent by powerful fan, and forced across condenser. This air is then pushed out of attic through gable louvers, creating an "air wash" under roof to keep attic cool.*

Return air from interior is pulled in through grille in dropped ceiling of central hall, cooled and dehumidified by unit, and forced into dispersal chamber in central hall, from which it flows into each room. Temperatures are controlled automatically by a thermostat.

ALSO . . . a Complete Line of Base Units for Furnace Manufacturers
2, 3 and 5-ton base unit air conditioners . . . for upright, duct or counterflow installations. These may be installed in specially designed cabinets as a companion unit or as part of the furnace itself. All units are hermetically sealed and warranted. Complete details and engineering service available on request.

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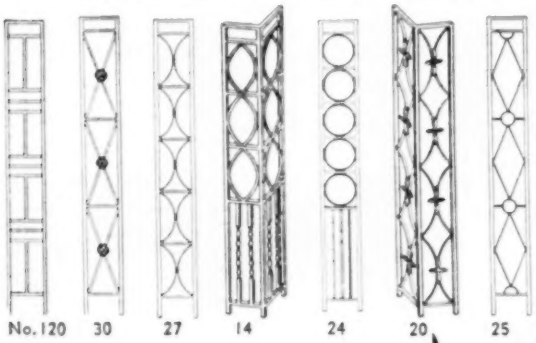

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1" square solid steel supporting posts.

Average weight of 90° porch column is 125 lbs.

Always specify single or 90° corner columns when ordering.

PRICES — 12" 90° corner columns: 7'—$28; 7'6"—$30; 8'—$32

Single 12" panels: 7'—$17; 7'6"—$18; 8'—$19

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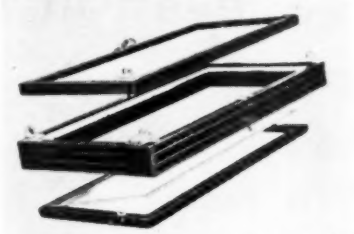
89 Elmgrove Avenue, Providence 6, Rhode Island

new products

PLASTIC WINDOW UNIT AB45405
The "Plyco" plastic window frame unit does not shrink, swell, rot or rust, according to its manufacturer. Each unit consists of a molded plastic frame, glazed sash and a combination storm

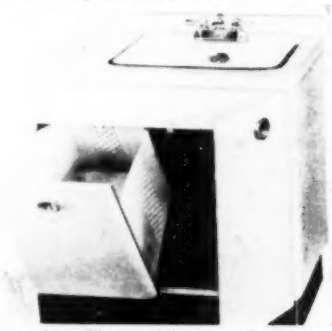


and screen unit. Units are designed for use in basements, utility rooms, tourist cabins, barns and industrial buildings. Since no cellulose fibers are used, the "Plyco" unit is termite proof. It is unaffected by mild acids, alkalis or salt air, and is fire resistant.

Aluminum weather stripping assures a year 'round snug fit, and a glazing strip eliminates putty. All units have jointless construction with rounded corners. The unit can also serve as a 16x32-inch glass block ventilator. It fits an opening in standard 8-inch glass block, two blocks high and four blocks wide. The Kohl Company, Dept. AB, Elkhart Lake, Wis.

BATHROOM CABINET AB45410
The new Cadet model plastic laminated bathroom cabinet is designed for apartments and small bathrooms; it is 31 inches long. The new Regent model, 47½ inches long, is designed for narrow bathroms. Matching plastic-edged medicine cabinets are 30 inches high and available in four lengths, 36, 47½, 54 and 60 inches.

These units are part of a stock model line of eight styles and a modular line of four styles—utility, hamper, drawer and lavatory cabinets, each available in



three sizes. These cabinets are laminated with a "lifetime" melamine plastic. Doors are warp-proof, edges are metal bound to prevent chipping, full piano hinges are used. Cabinets are supplied in a variety of colors. Regal Cabinet Corp., Dept. AB, 92 Third St., Brooklyn 31, N. Y.

♦ *FOR MORE INFORMATION USE COUPON, PAGE 52*

STERLING HARDWARE FOR SLIDING DOORS

HANGERS FOR BY-PASSING DOORS

No. 630 HANGERS
for 1⅜" Wardrobe Doors
Four rollers per door. Hanger cross arm pivots to equalize load on twin rollers. Slotted screw holes make it easy to plumb doors. Cadmium plated steel with nylon rollers.

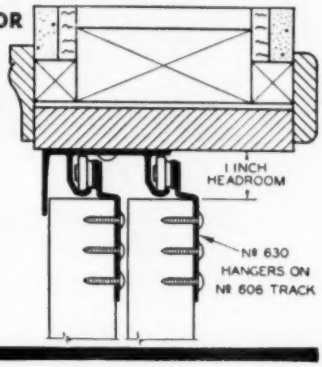
No. 620 HANGERS
for ¾" Wardrobe Doors

No. 610 HANGERS
for ¾" Cabinet Doors

ALUMINUM TRACK FOR BY-PASSING DOORS

Etched and anodized to a beautiful satin finish. Apron serves as decorative trim. Requires only 1 inch headroom in standard door frame.

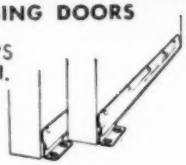
No. 602 for ¾" Doors
No. 606 for 1⅜" Doors
No. 608 for 1¾" Doors



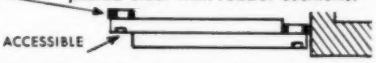
Sterling® HARDWARE

FOR BY-PASSING DOORS

No. 876 GUIDE STRIPS
Save time. Easy to install. Eliminates old-fashioned saw kerf in bottom of doors. Cadmium plated steel.



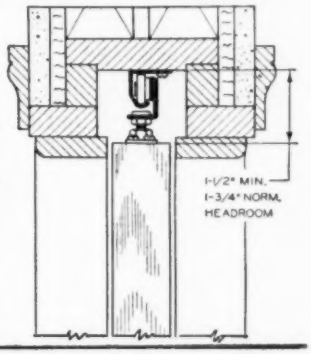
No. 885 DOOR CUSHIONS
Protect fingers from getting pinched in flush pull and prevent slam when doors are opened or closed. Cadmium plated steel with rubber cushions.



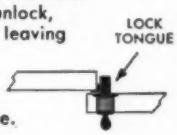
FOR WALL POCKET DOORS

No. 642 HANGERS
on No. 601 TRACK

Track is aluminum. Easily screwed to pocket header. Hangers are fully adjustable. Cadmium plated steel with Nylon rollers.



No. 1058 SLIDING DOOR LOCK
Designed on a new principle. Easily installed by boring one hole. Key required to lock or unlock, eliminating possibility of leaving key inside wardrobe. Fits ¾" to 1⅜" doors. Finished in polished brass or polished chrome.



No. 1036 SLIDING DOOR LOCK

Easy to install. Bore two holes. Privacy assured by turning thumb button. Emergency button on outside can be turned with screw driver or coin. Lock will engage strike even with some misalignment. Fits 1⅜" to 1¾" door. Finished in polished brass or polished brass and chrome combination.

FLUSH PULLS

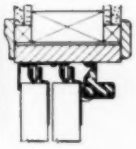
872 873 874

No. 880 DOOR STOP
Keeps doors from by-passing each other. Protects fingers. Cadmium plated steel with rubber bumper.

EDGE PULLS

881 882

No. 878 GUIDE STRIP
Guides door into pocket. Eliminates saw kerf in bottom of door. Aluminum. For 1⅜" door only.



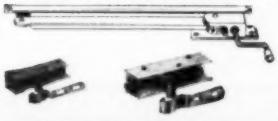
No. 639 CENTER STOP
Used in four door units and for bi-parting pocket doors. Cadmium plated steel. Includes two rubber bumpers.

FOR SIDE ENTRANCE DOORS IN HOME GARAGES

No. 890
SLIDING DOOR SET
Includes track, adjustable hangers, edge guides, floor guide, back stop and two flush pulls. For 1⅜" doors.

No. 1025
SLIDING DOOR LOCK
Rim type. Reversible. Easy to install. For 1⅜" to 2¼" doors. Bronze enamel finish.

STERLING HARDWARE FOR CASEMENT WINDOWS



No. 61 CASEMENT WINDOW OPERATOR
No. 155 & No. 165 PULL-TITE CLOSERS

• Extension Hinges • Other Builders Hardware

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★ See our display in the Architects Samples Corp., 101 Park Avenue, New York City
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2345 WEST NELSON STREET, CHICAGO 18, ILLINOIS

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PORTABLE ELECTRIC SAWS with any others made!

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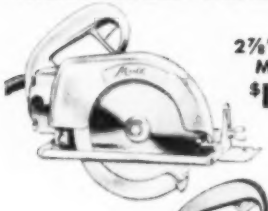
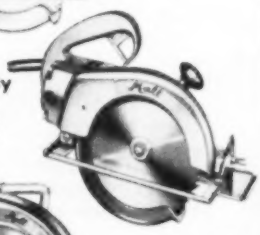


2⅞" Capacity
Model 86
$135.00



3⅜" Capacity
Model 96
$155.00

4⅝" Capacity
Model 128
$215.00

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MALL TOOL COMPANY 7732 S. Chicago Ave. Chicago 19, Illinois

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*Name*_____

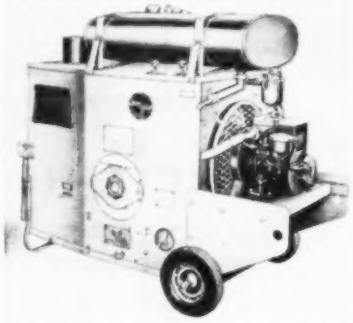
*Company*_____

*Address*_____

BU-106

new products

PORTABLE AIR HEATER AB45406
This redesigned standard model air heater is powered with a new Briggs and Stratton engine which permits modification in engine mounting, resulting in a simpler arrangement of components at the air intake end of the heater. A fuel

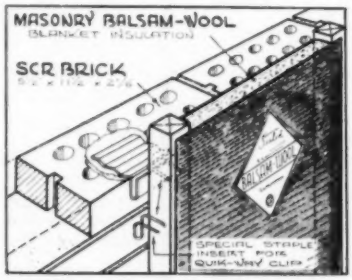


metering valve reduces the capacity of the unit from its maximum 385,000 Btu's to a low of 100,000 Btu's per hour.

The Standard Model is the only self-contained gasoline-fired unit in the manufacturer's Herman Nelson line. It is stated to be suitable where electricity is not available and where portable and spot heating in the ducts is an important factor. American Air Filter Co., Inc., Dept. AB, 1824 Third Ave., Moline, Ill.

BLANKET INSULATION AB45408
Masonry Balsam-Wool is a sealed blanket insulation that can be applied between furring strips for all types of masonry construction, including "SCR brick." It is supplied in two widths for application either to 16 or 12 inches on center.

The material has a thermal conductivity of .25, indicating its efficiency for building insulations. Because the insulating mat is enclosed and sealed in asphalt-saturated and coated liners, the product is stated to provide a year-round insulated wall by keeping out summer heat and retaining indoor



winter warmth. Masonry Balsam-Wool is vapor- and wind-resistant, bonded to the covering so it will not shake down in the walls. A flange permits it to be stapled or nailed to the furring strips. Wood Conversion Co., Dept. AB, First National Bank Bldg., St. Paul 1, Minn.

♦ *FOR MORE INFORMATION USE COUPON, PAGE 52*

BOSTROM LEVELS FOR HALF A CENTURY

No. 5 BOSTROM Convertible Level Detachable Compass when desired

Have been the most economical precision leveling instruments on the market.

Used and endorsed by contractors and builders everywhere. Sold on guarantee of satisfaction or money back.

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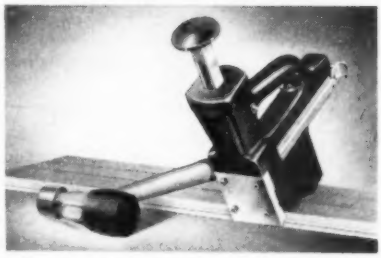
No. 4 BOSTROM Contractors' Level

Bostrom - Brady Mfg. Co.
535 Stonewall St., S. W. ATLANTA, GA.

NEW POWERNAIL SPEEDS PRODUCTION



Use This Machine to:

- Nail T&G Flooring
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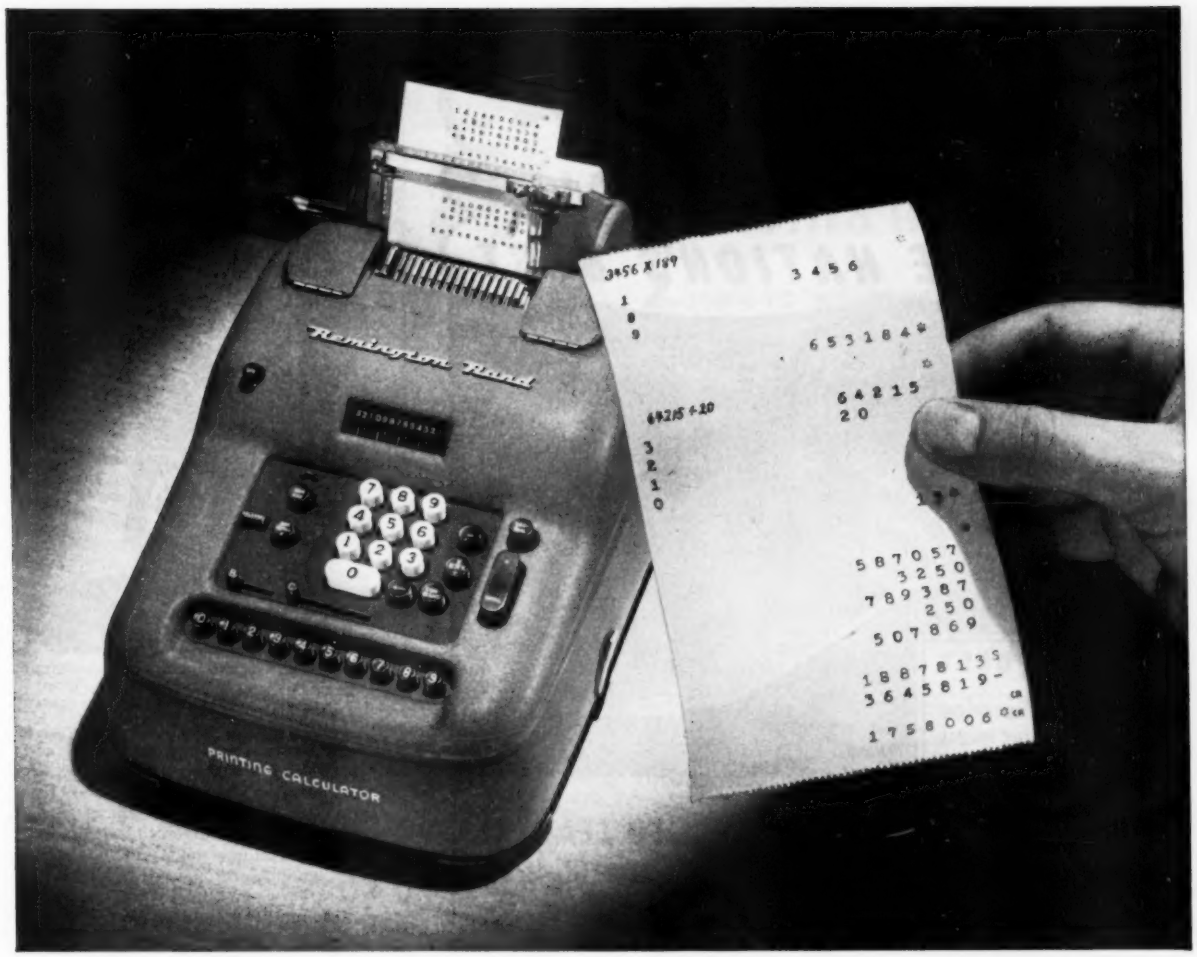
- Drive all nails 45°
- Expand Production
- Nail & Set One Blow

Hardwood flooring can now be laid better, in a fraction of the time formerly required! The NEW POWERNAIL Model 145 cuts nailing time up to 60%. No more wasted nails or tedious hand setting. The POWERNAIL magazine holds 100 flooring cleats.

POWERNAIL eliminates split tongues, cupping, warping and reduces surface marring and erratic nailing. Can't rust, clog or jam. Built for long dependable service.

POWERNAIL COMPANY
961 MONTANA STREET • CHICAGO 14, ILLINOIS



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This new, performance-packed printing calculator multiplies, divides, adds and subtracts amounts up to ten trillion. It prints and proves every calculation on the tape. It is the *first* fully automatic printing calculator with all these features:

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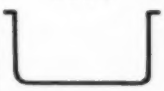
The practical Stream-lined Straight type Lux-Right Steel Areawall (see installation above) enjoys continued leadership among basement window well walls. A complete range of sizes to fit all standard window openings. Round type also supplied, and Casement type too.

The Original and only metal areawall hot-dipped galvanized (heavy zinc process) AFTER all punching, forming and other operations. Made in one-piece, the Imperial Lux-Right Areawall has full ⅝" deep horizontal corrugations, 2½" on center. It has a ¾" round bead on top edge, and flat 2½" Hug-Tite Flanges on both sides for tight fit to foundation wall. Holes for attachment in both flanges.

LUX-RIGHT CASEMENT TYPE



Square-type corners for casement window clearance

Send at once for this illustrated folder, giving full information on sizes for standard openings and proper way to install. It's FREE from us, or your nearest distributor or building materials dealer.

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new products

VENTILATING FANS **AB45403**

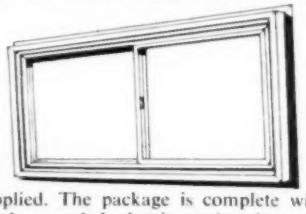
These fans, designed for wall and ceiling installations, have a one-piece grille mounted with a neoprene rubber grommet and single-threaded nose piece. All are available with a baked-on white

enamel grille that permits maximum passage of air; a chrome grille is also furnished.

Fans come knocked down, requiring a minimum of assembly time. Blades and fan housing are designed for greater air volume, quiet operation. The units feature "snap-in" assembly on the propeller and motor unit, permitting fast, easy cleaning. The new models include eight- and ten-inch through-wall ventilators and a ten-inch combination wall-and-ceiling fan. To provide a merchandising and sales display, the makers developed a rack (illustrated) showing three models. All fans are wired for demonstration. Miami Cabinet Division, The Philip Carey Manufacturing Co., Dept. AB, Middletown, Ohio.

SLIDER WINDOW **AB45402**

This new "Job-Condition" horizontal slider window is installed in a rough opening by nailing through the aluminum flashing fins which are concealed after the exterior finish surface has been



applied. The package is complete with both extruded aluminum interior trim and integral exterior finish trim.

By simple on-the-job adjustments, the window may be fitted to within 1/32-inch of the total through-wall thickness which in itself may vary from 4⅜ to 5⅜ inches from face of exterior sheathing to face of interior finished surface. Per-Fit Products Corp., Dept. AB, 1200 E. 52nd St., Indianapolis 5, Ind.

♦ *FOR MORE INFORMATION USE COUPON, PAGE 52*

4 IDEAS that give you the Biggest PLUS Benefits in Building!

1. HOW TO GET WARM, DRY FLOORS

ZONOLITE® INSULATING CONCRETE

ECONOMICAL—PERMANENT—Zonolite Insulating Concrete is an inert mineral, entirely inorganic. As permanent as the earth itself—the *first* cost is the *last* cost!

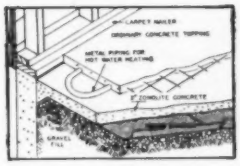
INCOMBUSTIBLE—Zonolite CANNOT burn.

ROTPROOF, VERMINPROOF—Not affected by moisture...dries out to original efficiency. Will not sustain animal life.

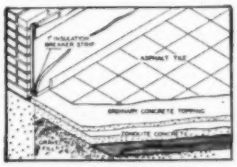
LIGHTWEIGHT—Weighs 1/5 as much as ordinary concrete or less than 2 lbs. per sq. ft. 1 in. thick.

HIGH INSULATING VALUE—Warm, dry floors for all types of on-the-ground construction. Zonolite Insulating Concrete has a rate of heat transfer equal to *16 inches of ordinary concrete!*

FOR COMPLETE DETAILS, WRITE FOR BOOKLET CA-4.



Radiant Heat Pipes Over Zonolite Insulating Concrete



Zonolite Insulating Concrete used on the ground

2. HOW TO INSULATE ATTIC IN 2 HOURS

ZONOLITE® INSULATING FILL

The easiest of all insulations to install...anyone on the job can insulate the average attic in as little time as 2 hours. Zonolite Insulating Fill pours directly from the bag between attic joists and sidewall studs. Flows freely and snugly around pipes, wiring and braces. Pour it, level it, leave it! 100% fireproof, rotproof, verminproof, lightweight, efficient, permanent. Cuts summer temperatures up to 15°. Saves up to 40% on winter fuel bills.

FOR COMPLETE DETAILS, WRITE FOR BOOKLET HI-20

APPROXIMATE COVERAGE OF ZONOLITE INSULATING FILL

Thickness	2"	3"	3⅝"	4"	5"	5⅝"
Coverage per bag in sq. ft.	26	17	14	13	10½	9

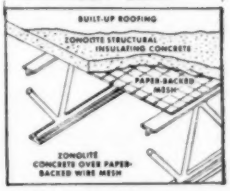
3. HOW TO GET LIGHTWEIGHT ROOF DECKS WITH BUILT-IN INSULATION

ZONOLITE® CONCRETE ROOF INSULATION

Zonolite Concrete is permanent—not affected by destructive agents that would harm less permanent materials. Zonolite weighs only 1/5 as much as ordinary concrete. It provides a fireproof, monolithic covering of insulation without joints or voids.

Zonolite Insulating Concrete may be used two ways: (1) Poured as insulation over existing roof decks of concrete, wood, metal, tile, etc. (2) As insulation and structural deck combined, when poured on supporting forms such as paper-backed welded wire mesh, high-ribbed metal lath, etc.

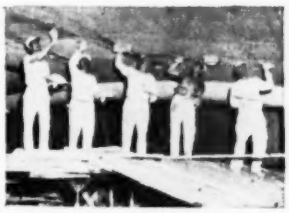
FOR FURTHER DETAILS WRITE FOR BOOKLET CA-5



Zonolite Insulating Concrete Over Paper-Backed Welded Wire Mesh

4. HOW TO REMODEL QUICKLY—GET ACOUSTICAL BENEFITS, TOO!

ZONOLITE® ACOUSTICAL PLASTIC



A ready-mix fireproof acoustical plaster that requires only the addition of water. Zonolite Acoustical Plastic can be troweled over any clean, firm, water-resistant surface. Old cracked ceilings can also be covered effectively without removal or use of additional lath, provided the plaster is firm and the finish coat of plaster is not separating from the base coat. Zonolite provides up to 400% more fire protection for walls and ceilings, a noise-reduction coefficient of 0.65.

FOR FURTHER INFORMATION WRITE FOR BOOKLET PA-5

Coefficient of sound absorption recorded for Zonolite Acoustical Plastic ½" thick after being painted with 2 and 4 coats of Kem-Tone.

FREQUENCY (cycles per sec.)	COEFFICIENTS	COEFFICIENTS
128	.31	.30
256	.32	.37
512	.52	.59
1024	.81	.84
2048	.88	.74
4096	.84	.65
NOISE REDUCTION Coefficient	0.65	0.65

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Zonolite Company, Dept. AB-44
135 S. LaSalle Street, Chicago 3, Ill.

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- ☐ Zonolite Insulating Concrete Booklet, CA-4
- ☐ Zonolite Insulating Fill Booklet, HI-20
- ☐ Zonolite Concrete Roof Insulation Booklet, CA-2
- ☐ Zonolite Acoustical Plastic Booklet, PA-5

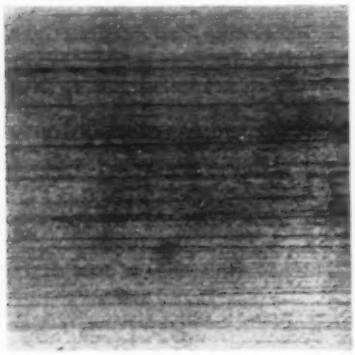
Name.....

Address.....

City.....*Zone*.....*State*.....

new products

VINYL WALL COVERING AB45407
The textured effect of natural wood is featured in a new mahogany pattern introduced in vinyl wall covering. Available by the yard or in eight-inch square tiles, the pattern comes in blond, gray, African and Carib Tan. The material requires no shellac, stain, varnish, wax or finish. Having a vinyl face sheet laminated to a rubber-saturated backing, it is easily applied to old or new walls, and can be installed around columns or bent around sharp inside or outside corners. Since it is cemented to the wall, it requires no nails. When properly applied, seams are practically invisible, and remain so through years of service, as the



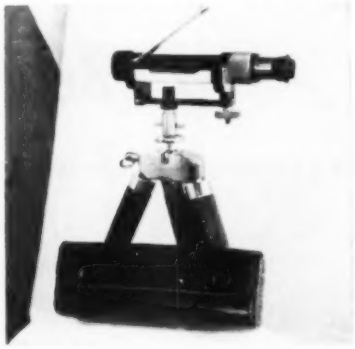
product is a dimensionally stable material made to eliminate seam shrinkage.

The product, called "Bolta-Wall," wipes clean with a damp cloth; it resists moisture, grease, steam, alcohol and most staining agents. It was recently classified as a fire-retardant material according to Federal specifications. Bolta Products Sales, Inc., Dept. AB, Lawrence, Mass.

NAME PLATE AB45419
A useful builder's item is embodied in this personalized name plate made of heavy-gauge brass, measuring 3⅞ by 2 9/16 inches. Finished in green enamel and brass, the plate comes with a choice of slogans for association or non-association members, as follows: "Member of Both Local and National Home Builders Association," or "Builders of Quality Homes." The plates can

be mounted in an out-of-the-way, yet conspicuous location, either in- or outdoors; mounting screws are furnished. Builders Name Plate, Dept. AB, Box 598, Loring Sta., Minneapolis 3, Minn.

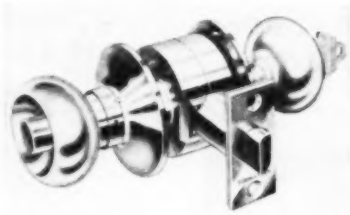
DUMPY LEVEL AB45414
The model GEO 47 pocket size dumpy level with erecting eyepiece is designed for small leveling jobs and preliminary surveying of larger projects. According to its manufacturers, it



is an indispensible assistant for the architect, surveyor and contractor.

The 12x power telescope is 5½ inches long and has an objective of ¾ of an inch. Its shortest focusing range is eight feet. The instrument weighs 12 ounces and can be fastened on any camera tripod or will fit into a coat pocket. Size of leather carrying case is 1¾ by 2⅛ by 6 inches. Geo-Optic Co., Inc., Dept. AB, 170 Broadway, New York 38, N.Y.

KNOB AND LOCKSET AB45417
The Challenger 800 series of semi-heavy duty latchsets and locksets is now available in a new, concave design; latest addition to the line is a



lock especially made for motels and apartment house entrance doors. It is equipped with a positive shut-out feature. When rooms of such establishments are locked from the inside with this device, they may be opened from the outside only by the use of a special key. This lock thus assures room tenants of complete privacy, coupled with safety.

The 2-inch diameter concave knob is made of seamless wrought brass, bronze or aluminum, available in all U.S. finishes. These finishes are protected by a clear baked enamel which is said to be practically indestructable. Hollymade Hardware Manufacturing Co., Dept. AB, 4865 Exposition Blvd., Los Angeles 16, Calif.

GAS UNIT HEATER AB45412
This compact, gas-fired unit heater is designed to meet demand for equipment combining maximum capacity with limited installation space requirements. It is 23 inches high, less than

23 inches deep, including fan and motor assembly, and 19½ inches wide. Its capacity is 50,000 Btu's per hour. The unit is said to be particularly suitable for spaces with low headroom.

Gas is fired directly in the tubes of an all-welded, gas-tight heat exchanger made of 16-gauge corrosion-resistant aluminized steel. The exchanger assures longer life, since aluminized steel will withstand temperatures up to 1600 degrees F. without destructive scaling. The heater is designed for quiet operation. It is approved by the AGA for use with all types of gas. Carrier Corp., Dept. AB, 302 S. Geddes St., Syracuse, N.Y.

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the most weather-resistant, dirt-resistant asbestos-cement siding ever offered by K&M!

The water resistance of the Siliconed surface of "Century" NU-GRAIN Shingles seems unbelievable. It causes water to "ball up" instantly and roll right off. Tests have shown its astounding resistance to sunlight, industrial fumes, ice and snow and below freezing temperatures.

Silicones are an invisible agent which cannot dissolve in water. They penetrate deeply and leave no surface film to peel off or wear away. Water-borne dirt, which can cause streaks under window sills and around other trim does not readily gain a foothold to mar the natural beauty of the shingles.

"Century" NU-GRAIN Shingles are as permanent as stone itself. They will not burn, rot or corrode and never need paint for protection. The distinctive NU-GRAIN shades—green, brown, gray and whitetone—and the realistic wood-grain pattern are designed for a lifetime.

"Century" Shingles are sold by more than 700 distributors. Ask the K&M distributor near you about new Silicone-treated "Century" siding or write to us for complete information.

There are six "Century" Shingles now Silicone-treated. In style # 58: (straight butt line) NU-GRAIN gray, brown, whitetone and green (illustrated); also Shell White with cypress graining. In style # 57: Shell White with cypress and wavy butt line.

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- Framing
- Roofing
- Heating and Plumbing
- Air Conditioning
- Wiring
- Insulation
- Interior Finish
- Power Equipment

estimating cabinet work

I would like to know a good way to estimate cabinet work. Can you help me?

J. W. S., Pine City, N. Y.

There are many ways of estimating cabinet work, but the two methods described below are used most extensively.

The majority of large cabinet manufacturers figure their cabinet work on a unit basis. These producers first determine costs of component parts through time studies and other means. The price then becomes so much for a certain unit of a certain size computed on the basis of component parts going into the unit.

Some manufacturers use a method computed on the basis of square foot of front surface area. Unit price per square foot is determined by experience and the case work involved. Naturally, the depth of the case will vary the square foot price. To this square foot price usually is added special features, such as bins, extra drawers and other items that tend to increase costs.

Other estimating systems can be worked out, but they are always based on the individual's source of cost information.

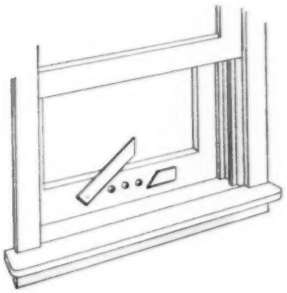
storm windows freeze

Moisture collects between the windows and the storm windows of our home. In the winter, the moisture freezes making it impossible to look through them. The windows in question are weather stripped and the house is fully insulated. The house is constructed of brick veneer over frame. What is the reason for this condition and what can I do to remedy it?

R. M., Seward, Nebr.

No doubt you are carrying a considerable amount of moisture within your home for if you did not have excessive condensation on the inside surfaces of the windows, the inside relative humidity would be satisfactory. (You did not state whether or not such moisture collected on the inside surfaces of the windows as well as on the storm windows.)

The condition you have may be



due to the storm windows' being exceedingly tight which prevents breathing of the vapor to the outside. The rate of vapor flow from the inside through the window to the storm window is greater than that which can escape through the storm window itself. A small amount of ventilation, to overcome this condition, will probably alleviate your moisture problem without increasing the heat loss to a considerable extent. Try small ventilators at the bottom of the storm windows, or refit the storm windows so they are not so tight.

C. E. Lund,
University of Minnesota

best building cost book

Do you have any literature pertaining to figuring the cost of a new home by the cubic foot method?

J. Z., Utica, New York

We do not have any literature pertaining to figuring the cost of new houses by cubic feet.

We have found the best building cost book to be: *Building Estimator's Reference Book and Vest Pocket Estimator*, by Frank Walker.

Small Homes Council,
University of Illinois

GOT a problem you haven't solved? Can't solve? Haven't the time to solve?

Have you solved a problem with an answer you aren't sure of? Are you doing some particular job—big or little—in a way that you think might be improved?

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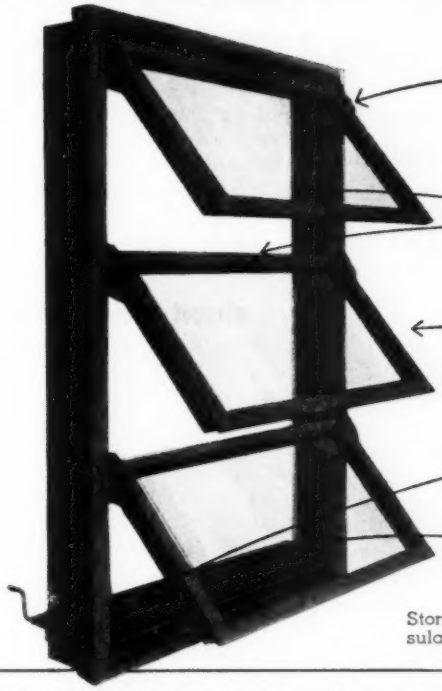
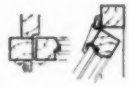
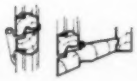
As many questions and answers as space permits will be published monthly in *American Builder*, under the head—"Ask The Experts."

Gate City Perma-Treated Wood Awning Windows





FIXED HINGE OPERATION prevents back-splash over the top vent while slanted sash deflect rain.



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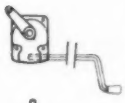
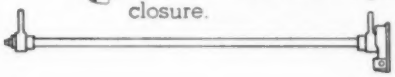


DUAL ACTION HARDWARE pulls sash in evenly at both sides, prevents torsion and sash sag. Simple, sturdy construction with exceptionally tight closure.



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20" Glass width in 14-16-18" heights. 1 to 5 vent windows.

32" Glass width in 14-16-18" heights. 1 to 5 vent windows.

40" Glass width in 14-16-18" heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.

44" Glass width in 14-16-18" heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.

Fixed Side Lights for combining with operating units. 16" glass width. 1 to 5 vents high.

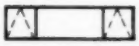
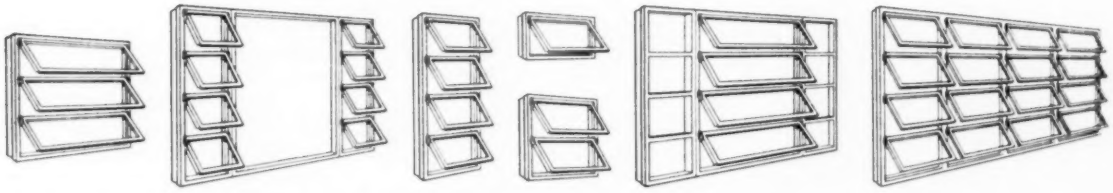


Plate Glass Frames for use with operating units. In widths desired, 1 to 5 vent heights.



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ask the *experts*

framing for a wide overhang

I plan to build a ranch-type house with a wide overhang. How can I go about building the framing for the overhang if I use 1-inch roof sheathing? Would I have to build the framing in a different way to account for the extra weight if I were to use 2-inch sheathing?

H. G., Louisville, Ky.

Here are two methods of framing for the overhang of a ranch-type roof. Where 1-inch sheathing is used, it is necessary to carry short joists out over the main walls of the building to carry the overhang.

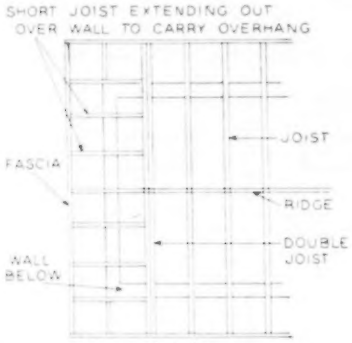

FIG. A

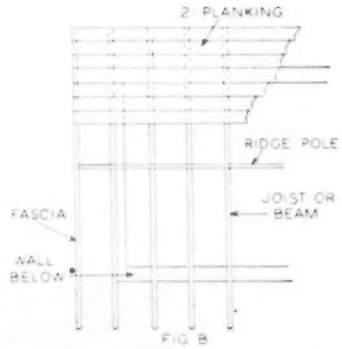

FIG. B

These short joists are anchored to a double joist over the main part of the house. This kind of structure is shown in Figure A.

In Figure B, 2-inch planking is used for the roof sheathing. With this type of heavier planking, it is possible to cantilever the overhang just by extending the planking. A fascia board is carried at the ends of the planking if it is desired.

K. Roderick O'Neal, Architect,
Chicago, Ill.

circuit breakers kick out

When I replaced the light bulbs in one of the gymnasiums of our school recently, the circuit breakers kicked out. We have five circuits with five 500-watt light bulbs to the circuit. They have been used since 1938 on five 20-amp circuit breakers.

I replaced all the lamps with the same size; that is, I put back 500-watt light bulbs in each socket. This time, however, I used light bulbs manufactured by a firm whose product I had not used previously.

When I turned on the lights, they kicked out the circuit breakers. Why did this occur after I replaced the bulbs with ones of the same wattage?

J. A. S., Arcadia, La.

The difficulty described may be traced to a low voltage condition. Assuming no power-consuming devices have been added to the existing circuits, and that the circuit breakers are mechanically intact, several possibilities exist:

1. If the building supply voltage has dropped, the additional current increase could cause the breakers to kick out.

2. If a bulb of a lower voltage rating than the original was used, an increase in current would result.

A decrease of five volts would result in a four per cent increase in current under the conditions that you stated in your letter. Have your local electric utility check the supply voltage in your building.

Arthur R. Wallace,
Consulting Engineer

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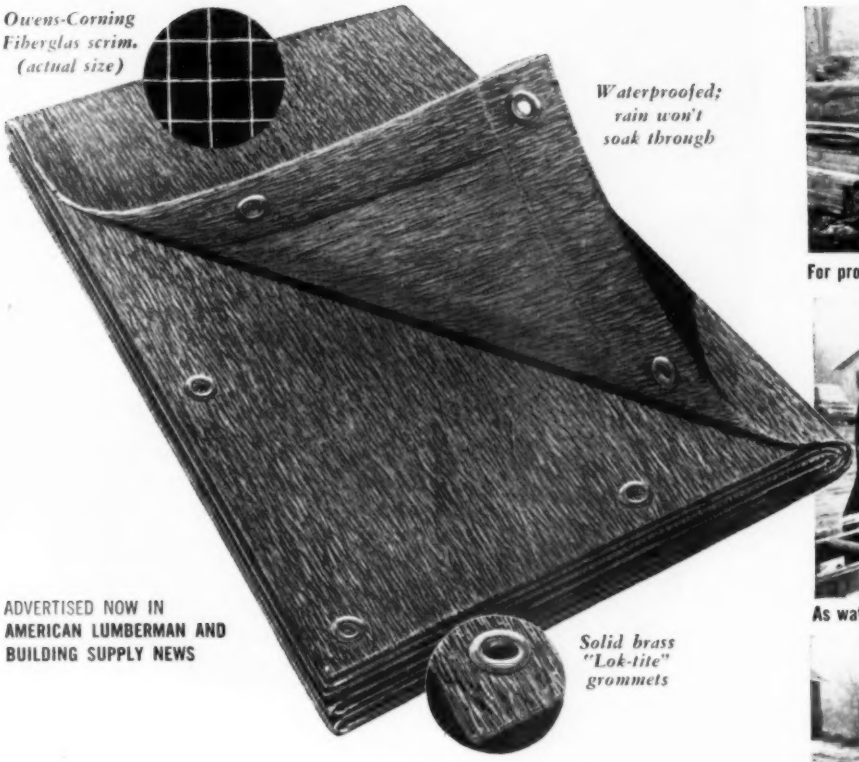

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SPECIFY MAKE AND MODEL OF TUB

If Not Available at Your Local Jobber, Send Your Order to Dept. AB.

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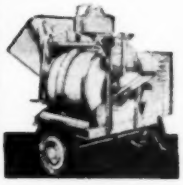
CMC Job Mixers will save men and money

They are built to take it . . .

Compact . . Easy to spot . . Easy to move



3½S NON-TILT

3½S TILTER

CMC Job Mixers are the biggest money makers in the mixer field. They are the easiest handled on the job and are perfectly balanced for high speed trailing.

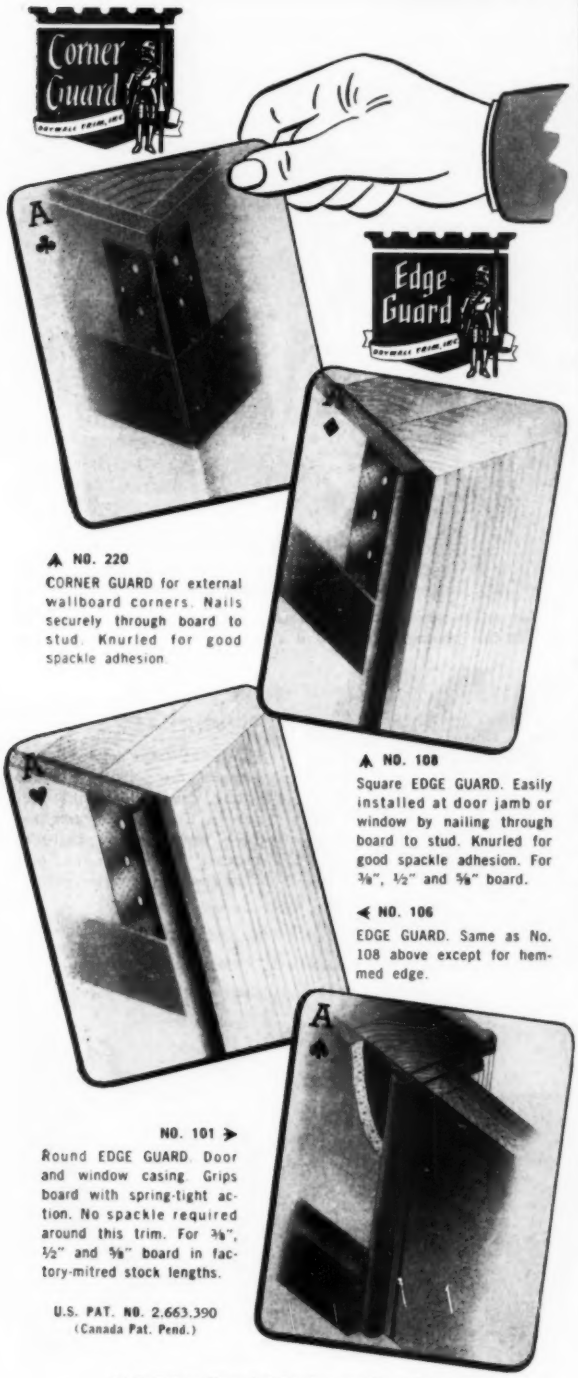
If you want the best with the longest trouble-free performance choose CMC Job Mixers.

3½ to 16 cubic foot models are available to fit any job condition.

CONSTRUCTION MACHINERY COMPANY • Waterloo, Iowa

4 aces!

TOPS in DRYWALL



▲ **NO. 220**
CORNER GUARD for external wallboard corners. Nails securely through board to stud. Knurled for good spackle adhesion.

▲ **NO. 108**
Square EDGE GUARD. Easily installed at door jamb or window by nailing through board to stud. Knurled for good spackle adhesion. For 3/8", 1/2" and 5/8" board.

◀ **NO. 106**
EDGE GUARD. Same as No. 108 above except for hemmed edge.

NO. 101 ▶
Round EDGE GUARD. Door and window casing. Grips board with spring-tight action. No spackle required around this trim. For 3/8", 1/2" and 5/8" board in factory-mitred stock lengths.

U.S. PAT. NO. 2,663,390
(Canada Pat. Pend.)

At Building Material Dealers or Write Dept. AB

DRYWALL TRIM, INC.

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Completely seals against weather at these important points. ●

The springs of the Silent Glide Sash Balance operate in an aluminum tube that's lined with heavy rayon velour. This new, quiet balance is combined with Triple Seal's famous 1-piece metal jamb covers that give complete seal against the weather, yet permit windows to move up and down at a touch . . . *quietly!*

Save Time and Labor In Installation

Everything needed for one window comes in one package. There's no on-the-job material loss. Triple Seal Silent Glide Sash Balances and Metal Weatherstripping can be applied easier because all fastening points are clearly marked. The tough, aluminum tube that houses the spring balance resists construction damage. No replacement loss before the job is finished!

WRITE FOR COMPLETE DETAILS

The Weatherproof Products Corp.,
Waldo Sta. P. O. Box 8498, Kansas City, Mo.

Gentlemen: Tell me more about Silent Glide Sash Balances and Triple Seal Metal Weatherstripping.
I am a builder ☐ dealer ☐ interested in on-the-job installation ☐ mill-assembled window units ☐

Name.....

Address.....

City.....**State**.....

technical guide

for builders and craftsmen

'Three-in-one' roof panels simplify exposed beam construction

Particularly adaptable to flat or low-pitch roofs, this roof deck material can be applied quickly. Three men shown in the photograph applied 1,000 square feet in two hours

The living room ceiling in this home is the finished surface of the underside of the roof panels. These panels combine three functions in one—roof decking, roof insulation, and a prefinished interior ceiling

This roof deck slab material is a product designed primarily to facilitate the construction of flat or low-pitched roofs. Produced in sizes of 2 feet by 8 feet, 1½, 2 and 3 inches thick, it is particularly adaptable to homes where the roof beams or rafters are exposed in the rooms below.

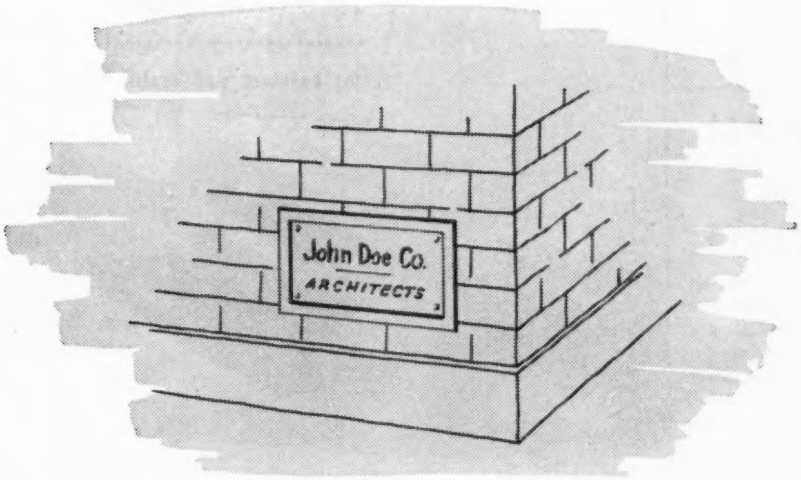
These roof slabs are referred to as a three-in-one material because they serve (1) as a roof decking, (2) as roof insulation, and (3) as a prefinished interior ceiling.

Condensation is taken care of by a vapor barrier laminated between the layers of the roof deck, close to the finished surface. To further seal the deck slab, a rubber gasket is cemented in the joint.

These roof deck units are applied with the long dimension at right angles to the framing members, leaving the tongue edge exposed. End joints are staggered so that adjoining pieces do not fall on the same framing members. The long edges are brought together to a snug fit as successive panels of the roof deck are applied. They are secured

(*Continued on page 66*)

Drawing of roof deck joint, at left, shows square tongue-and-groove application, factory-applied rubber vapor seal gasket, and beveled edges on lower (interior finish) surface. Illustrated at right is the vapor seal of resilient rubber which is cemented into the joint. A vapor barrier membrane is laminated between the lower plies of the roof deck, close to the finished surface



Is Destructive Condensation Jeopardizing Your Reputation?

SPECIFYING on a "take-it-for-granted" basis, some architects and builders with their own hands sow the seeds of destruction inside the walls of buildings they are so proud of.

A sturdy, frame house in Pennsylvania, for example, had to be moved. But it was found that the sills had rotted away. Inside the walls was ordinary insulation and no metallic vapor barrier.

A large brick and steel apartment development in the suburbs; a huge housing project in a big city; each caused great expense to its sponsors when ordinary insulation inside walls failed to prevent excess vapor flow, excess condensation formation, resulting in peeling paint and crumbling plaster.

Reputations as well as buildings are guarded by the use of multiple accordion aluminum. Its continuous metal sheets, 500 ft. to 750 ft. long, are impervious to water vapor. Infiltration under flat, stapled flanges is slight.

The scientific construction of multiple layers of accordion aluminum, fiber, and air, minimizes condensation on or within this type of insulation.

Of all heat flow through structural spaces, 50% to 80% is Radiation; 7% Conduction; the rest Convection. Multiple accordion aluminum surfaces have a reflectivity of 97% for Radiation or radiant heat, and an emissivity of only 3%. The aluminum and fiber sheets retard outer and inner Convection. The alternating layers of air spaces have low density and therefore slight Conduction.

The improved* multiple accordion aluminum, Infra Type 6-S*i* and 4-S*i* gives the entire area between joists maximum, edge to edge, uniform depth protection against heat loss and condensation formation. Write for sample and description.

*Patent applied for

COST OF INFRA INSULATION INSTALLED in new construction between wood joists, material with labor,

Type 6-S*i* under 9½¢ sq. ft.
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Quotes N. Y. Builder

"It ordinarily takes 70-80 man-hr. to get a first class job of taping on plasterboard, etc. By putting on a thin coat of "Nu-Wall" bonding plaster, house is taped to stage, ready for plastering in about 6-7 hr. Two plasterers used up a little under 17 man-hr. doing entire house (except closets) with the bonding plaster, etc."

Quotes Wis. Dealer

"This type of thin plaster appears particularly suitable for plaster finishes in houses whose window and door trim has insufficient depth or reveal to permit normal type of plaster application." "Our applicator commented on the ease of applying the material and the fact that it did not crack when drying or when sufficient pressure was applied to bend gypsum board."

***This same NU-WALL restores old painted walls and ceilings!**

Write for information to

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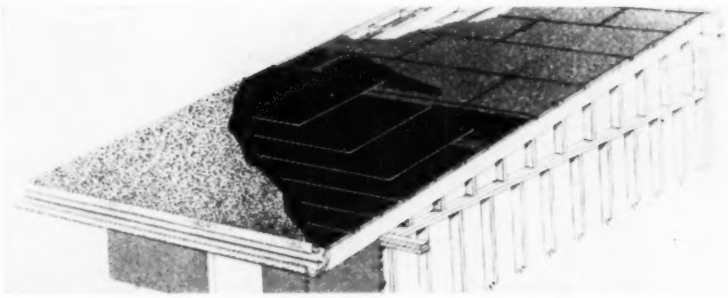
(Dept. A.B.)

technical guide

for builders and craftsmen



This illustration of built-up roof construction shows roof deck, built-up roofing, granules, gravel stop and gutter

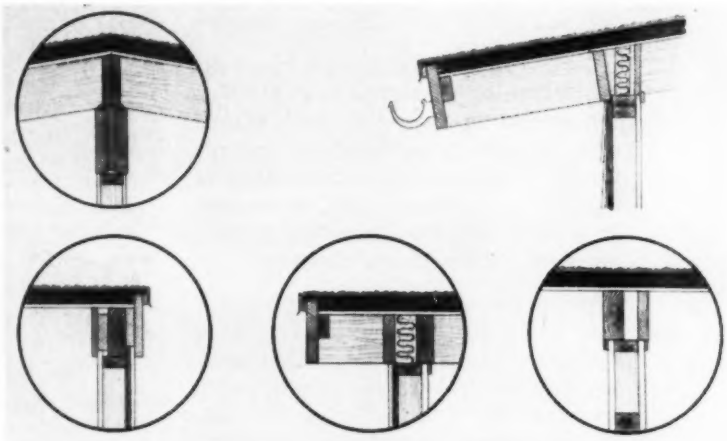
(Continued from page 64)

with large-headed galvanized nails spaced five inches on centers. Nailing is started at center bearings.

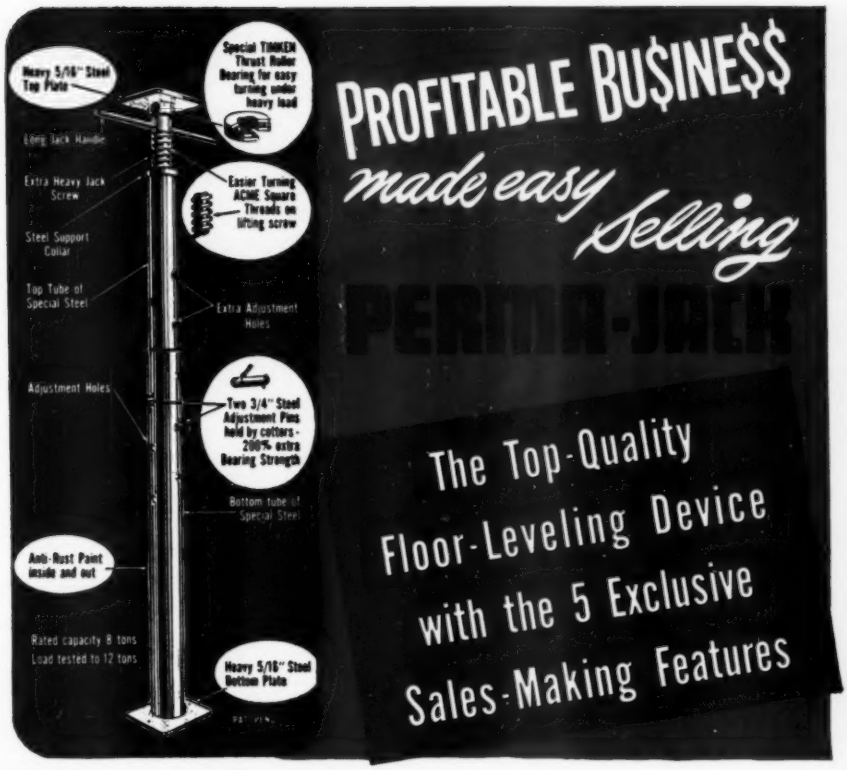
A pitch or asphalt built-up roof is the simplest method of roofing over a roof deck. This can be applied directly to the top surface. Shingles can also be used, but they need to be applied over building paper and wood nailing strips.

Photographs and data courtesy of the Insulite Division, Minnesota and Ontario Paper Co.

Large-headed galvanized nails, long enough to penetrate the framing members at least 1½-inch, are used to apply the 2x8-foot roof deck sheets



This set of drawings shows construction details for roof deck and built-up roofing. At top-left is the ridge with rafters butted over cover beam. The rafter is tied with a metal strap. Supporting beam is provided below rafters with a spacer block between. Top-right detail shows eave section with gravel stop, edge support for roof deck, spacer and nailing block between rafters. Insulation is carried up to the roof deck material. Bottom-left illustration shows the end wall without overhang. Gravel stop is in place; necessary block, siding and sheathing on exterior and one board on interior wall also are shown. Bottom-center drawing shows end wall with overhang. Gravel stop, edge support for roof deck, spacer and nailing between the rafters and necessary insulation are detailed. Bottom-right is an interior partition detail, showing the rafter, blocking between the members and the continuous trim piece



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The floor leveling jack that gained leadership at $10.95 *now* **$9.95**

F. O. B. Cleveland

Thousands of property owners know the ease and convenience of correcting their sagging floors, sticking doors and stopping unsightly plaster cracks, economically and permanently with Perma-Jack. Continuous consumer advertising and sales promotion programs have created demand in your territory for this profit producing packaged utility.

Your jobber has stock on hand. Place your order today and make sure you stock this easy-to-sell profit producer.

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Two sizes (Perma-Jack 4'8" to 8'4"—Perma-Jack Special 21" to 36") fit every need.

The Quality Adjustable Steel Jack-and-Post for Leveling Sagging Floors

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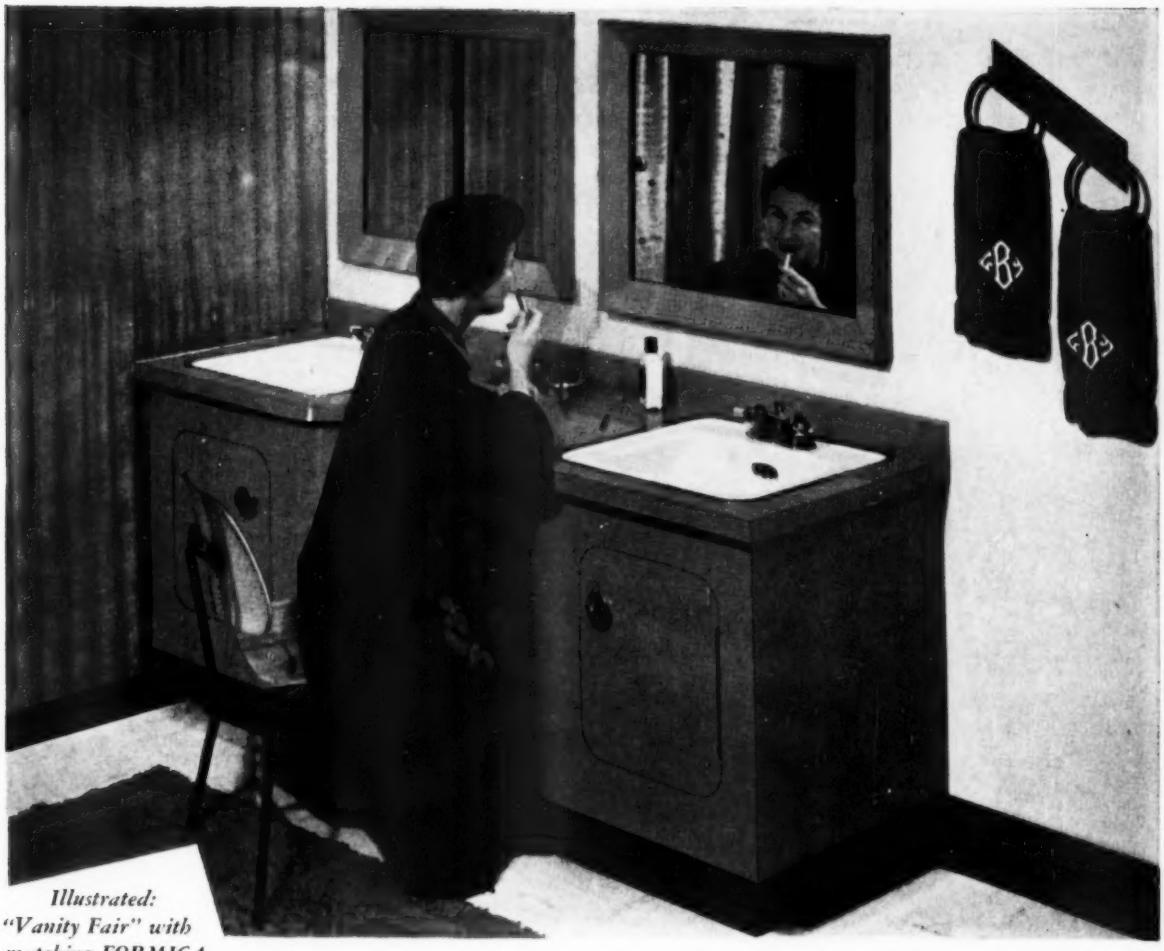

Illustrated: "Vanity Fair" with matching FORMICA medicine chests nationally distributed by National Vanity Co., Bayonne, N. J.

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Many of the colors in Formica's new Sunrise Color Line were especially planned by famous Raymond Loewy Associates to put new appeal in bathrooms.

Look in your classified phone book under "plastics" for your nearest Formica distributor or fabricator. See samples of the new colors and get full information on other Formica surfaces that will add more sales appeal to your homes.

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Bathroom idea folder illustrating many types of Vanitories in full color. Write:

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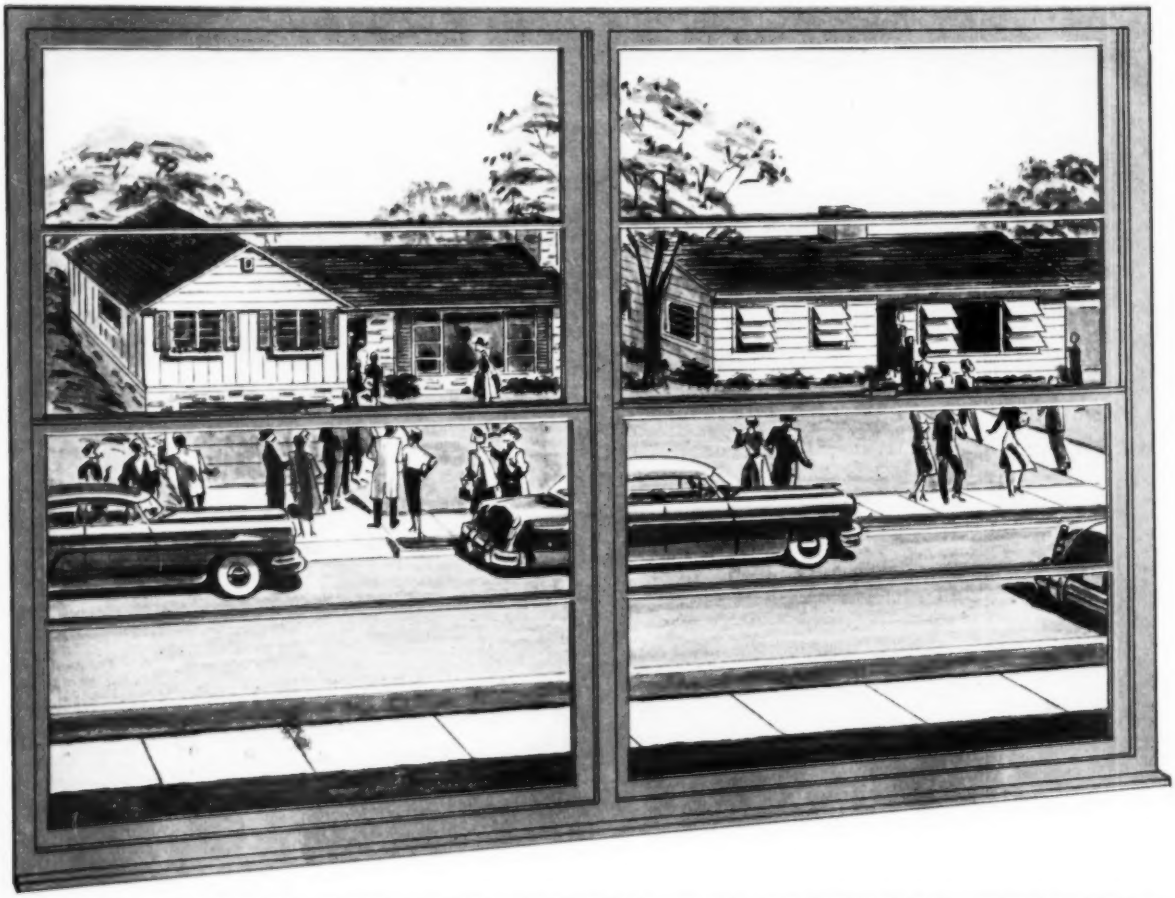
HOUSES *SELL FASTER..*



EIGHT REASONS WHY YOU SHOULD USE ALUMINUM WINDOWS:

1. **PREFERRED BY MOST HOME BUYERS**
   Growing demand by the public provides a real sales advantage.
2. **ADD VISIBLE SALES APPEAL**
   that can be seen from outside as well as inside.
3. **FIT ALL STYLES and TYPES of CONSTRUCTION**
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   as a superior, money-saving building product that lowers maintenance costs and enhances resale values.

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TESTED
For Low Air Infiltration

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Quality Approved

ALUMINUM WINDOWS

Wherever you go...north, south, east or west...you'll find a definite swing to aluminum windows.

Each year since 1947, more and more houses have been built with these attractive, easy-to-maintain, never-need-painting windows. Each year, more and more builders recognize the tremendous sales appeal they have for home buyers.

If you haven't discovered the selling power of modern aluminum windows, make this test. Build one model house with "old-fashioned" windows. Then, include "Quality-Approved" aluminum windows in a second model house.

You'll soon see which offers the greatest appeal for the home buyer. (One builder reports his first week-end's sales at 16 to 1 in favor of the aluminum windows.) Yes, today's buyer is looking for extra value, extra savings in his new house. He not only wants a house that is modern and up-to-date in every respect, but one that offers low-cost maintenance as well as comfortable living.

Include "Quality-Approved" aluminum windows in the next house you build and see for yourself how they help stimulate sales. You'll also appreciate their many other worthwhile advantages, such as: easier handling, easier installation, no painting problems or expense, no profit-eating service call-backs.

"Quality-Approved" aluminum windows are available for immediate delivery, through many manufacturers, in sizes and styles (double-hung, casement, projected, and awning types) that fit any building plans. All are tested against rigid performance standards. All are approved for quality of materials, for strength of sections, for sound construction, and for low air infiltration.

For additional information consult Sweet's Builders File (Section 3c/ALU) or any of the approved manufacturers listed below, or write us direct at Dept. AB-4.

Aluminum Window Manufacturers Association

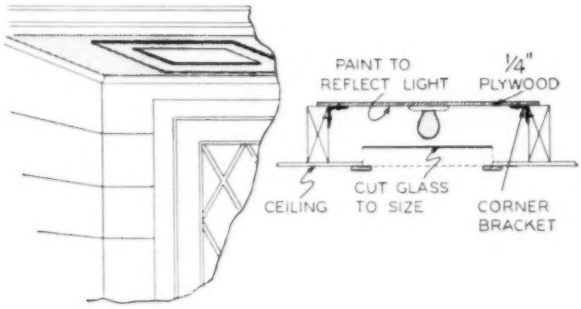
74 Trinity Place, New York 6, N. Y.

MEMBERS: Alcoaco Products, Inc., Muskegon, Mich. • All Life Metal Window Company, Bristol, Pa. • Aluminum Home Products Co., Knoxville, Tenn. • The Wm. Bayley Co., Springfield, Ohio • Coco Steel Products Corp. (Sterling Aluminum Window Division), Chicago, Ill. • Cupples Products Corp., St. Louis, Mo. • Fentron Industries, Inc., Seattle, Wash. • Michael Flynn Mfg. Co., Philadelphia, Pa. • General Bronze Corp., Garden City, N. Y. • Hunter Mfg. Corp., Bristol, Pa. • Metal Arts Mfg. Co., Inc., Atlanta, Ga. • Miami Window Corp., Miami, Fla. • Reynolds Metals Co. (Parts Division), Louisville, Ky. • J. S. Thorn Co., Philadelphia, Pa. • Tiona Industries, Inc., Los Angeles, Calif. • Universal Window Co., Berkeley, Calif. • Wera Laboratories, Inc., Miami, Fla. • Windalume Corp., Kenvil, N. J.

how would you do it?

ideas for the man on the job

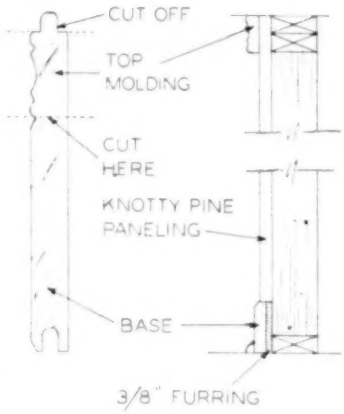
an outdoor ceiling fixture



Recess a ceiling fixture at front or back door by cutting a square in soffit at desired spot. Frame opening with 1⅛-inch stock. Electrical fixture can be of a simple and inexpensive type. Cut glass to required size and insert through opening by tilting slightly. It is unnecessary to remove glass to change bulbs. Just shift glass to one side.

—A. N. Nelson, Kansas City, Mo.

improvising baseboard molding

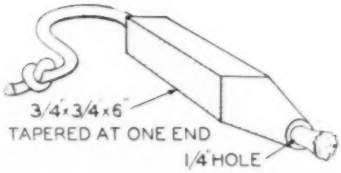


Cut off the molded section of a piece of knotty pine paneling. The portion of the paneling remaining makes an excellent baseboard. Set the baseboard level and nail. If knotty pine paneling is desired on the walls, nail the baseboard to ⅜-inch furring strips. This will allow necessary space so pine wall paneling can be set on top of the baseboard. The molded section of the piece of paneling which was removed can also be used. Rip the molded section to remove the tongue and use the molding to finish off paneling near the ceiling line.

—L. W. Wilson, Cedar Rapids, Ia.

how to make a brush from a clothesline

Bore a ¼-inch hole through the center of a piece of wood ¾x¾x6 inches. Taper one end on all four sides. Insert a 12-inch length of sash cord or clothesline. Let about ½-inch of the cord stick out the tapered end and tie a knot in the other end. Use this device as a glue brush. When through with the job, cut off the used portion and it is ready for use again. You can use it for painting, stenciling, lubricating or dusting small objects.



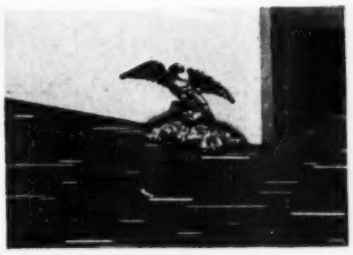
—W. Szucs, Beria, Ohio.

The Gold Seal Nairn Inlaid Linoleum that makes every room look bigger for the money

"Jackstraw"

TRADE-MARK

"Jackstraw" pattern shown No. K658 Red Vinyl Top Red Tone Congowall



Here's the trick to "Jackstraw" . . . color strips that draw your eye across the floor to make rooms look bigger.

Ten color combinations suggest limitless color schemes for every room. Colors are clear all the way through.

"Jackstraw" protects you and your customers with the famous Gold Seal Guarantee of satisfaction or your money back.

What's the first thing a prospective buyer looks for in a house? Big, airy, spacious rooms. Give him a big, airy, spacious *look* and you add hundreds of dollars to the value of the house. Lay "Jackstraw" Gold Seal Inlaid Linoleum. Its colorful little Jackstraws draw your eye across the floor . . . make every room look bigger and wider. Its ruggedness and fine quality promise long life. Its resilience practically eliminates clatter. It is *known* from continuous national advertising. And it's the flooring customers go into stores to buy for themselves! The next time you want to "open up" rooms lay "Jackstraw" Gold Seal Inlaid Linoleum. Available by the yard or in 9" x 9" tiles precisely cut for easy installation.

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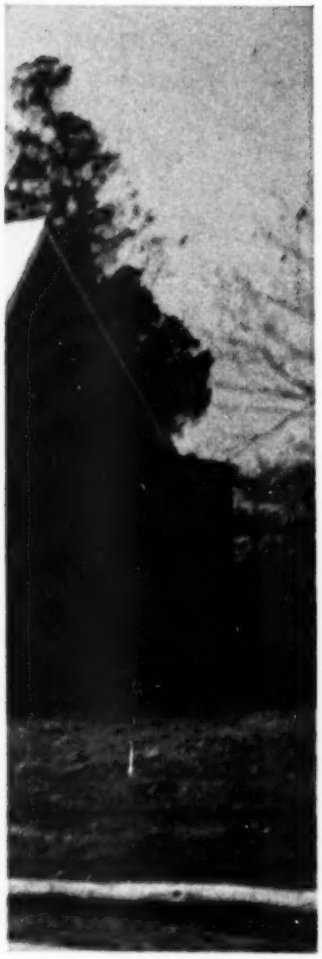
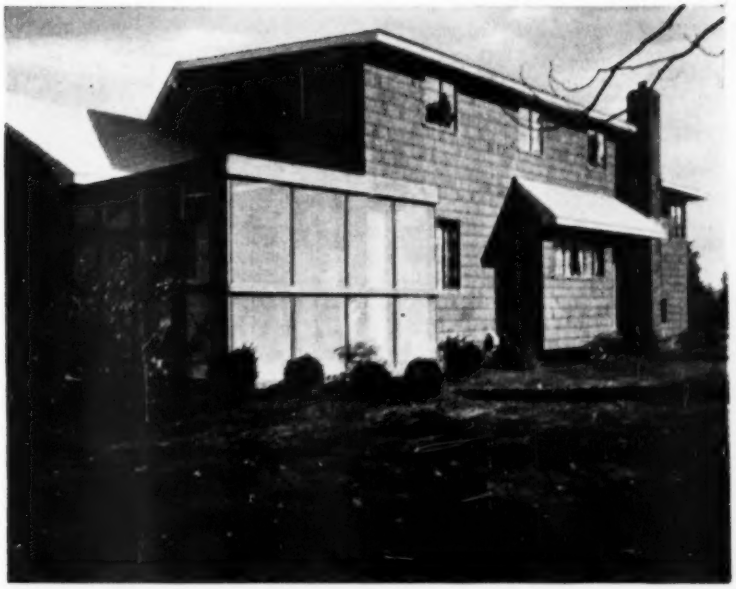
Screened porch 144
COST, including ¼-acre lot $22,590

split-levels meet today's space needs





Position of doors and windows on the front elevation at left clearly define three levels—entrance, living area and garage, lower bedroom level, and basement (recreation and utility area). Architectural treatment of this four-level house has resulted in ground-hugging lines that set it off advantageously on a level plot. Rear elevation shows dormer for upper bedroom level; features a porch with screened sidewalls and roof. Recreation room below is the same size as the living room; occupies major portion of the basement

For that larger family with modest income the split-level is garnering its share of today's buyers. Economical construction and architectural ingenuity combine to provide maximum livable space at minimum, comparable cost. Basically, this type of construction permits closer and more efficient grouping of rooms with consequent reduction in square foot area of floor.

The "big value" house shown on these pages offers plenty of space and large rooms throughout, but it also overcomes an often-voiced objection to split-levels by eliminating the need to artificially elevate the grounds. This is done by the simple expedient of pulling out the garage from under the living room and attaching it to the side of the house. Even though this house has four levels, the designers achieved exterior architectural lines that make it appear at home on a level lot.

With a ground floor area of 1,360 square feet, this house has eight rooms plus garage, porch, utility room, dinette and children's study. Four bedrooms, two baths and the study are on the two upper levels, while the lower areas contain living room, dining room, kitchen, dinette, entrance-foyer, recreation room, utility room, garage and porch. Eleven closets are provided.

House is placed on poured concrete walls and footings. Crawl space is provided under the ground floor area. Walls and floor construction are of frame with brick veneer along a portion of the front wall. Balance of exterior walls is covered with 24-inch long wood shingles exposed 10 inches to the weather.

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U.S. Gypsum drywall
U.S. Gypsum insulation

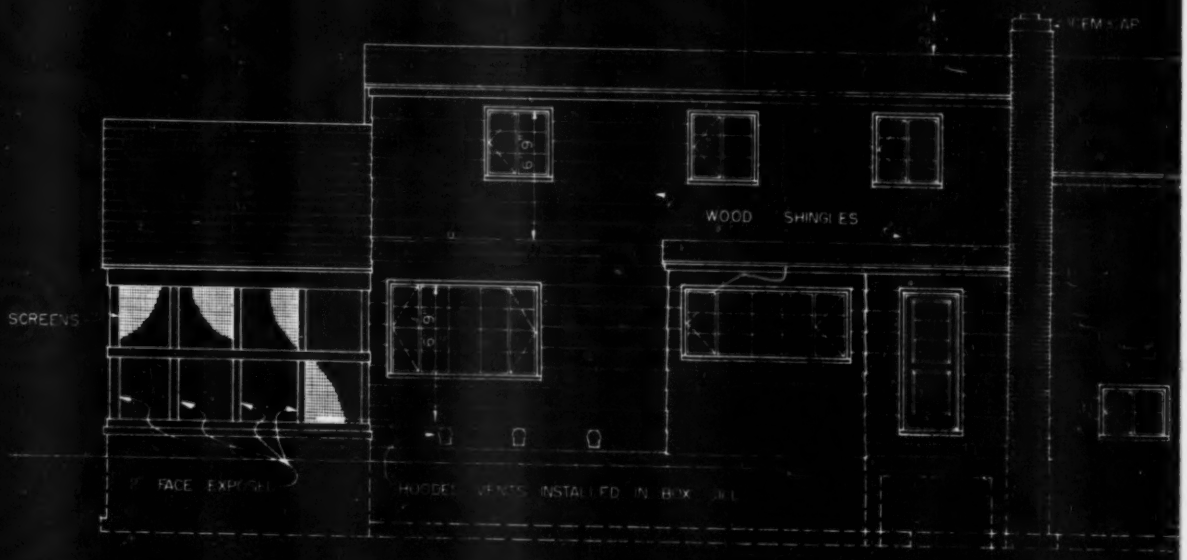
Extra height is added to the large living room by depressing the floor one step below the entrance and dining room level

The kitchen-dinette area is one large room separated into its various functions by placement of furniture

Sidewalls and roof of the porch are screened with all framing members exposed

For complete one-quarter-inch working plans of this house, write *American Builder Home Plan Service*, 79 West Monroe Street, Chicago 3, Illinois.

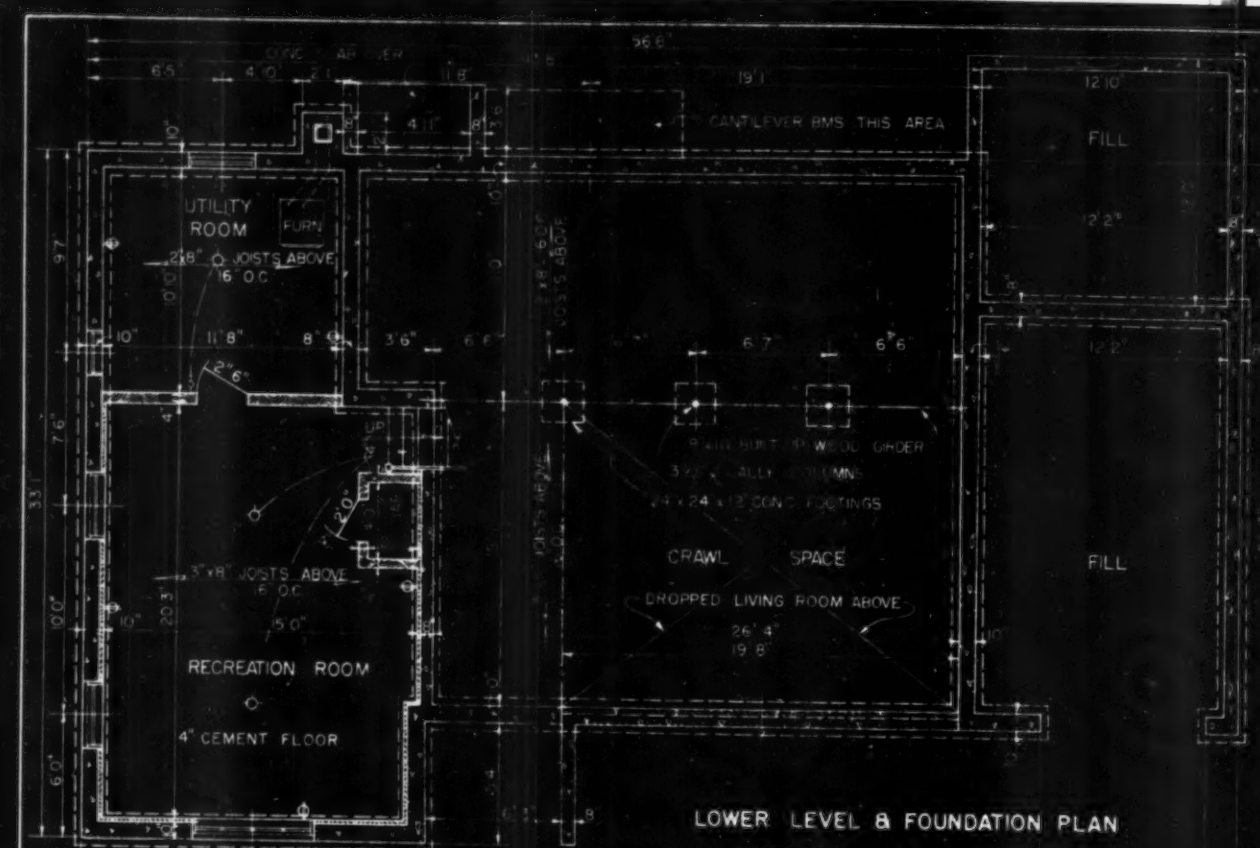
See Gatefold Blueprint for working drawings —quantity list of materials



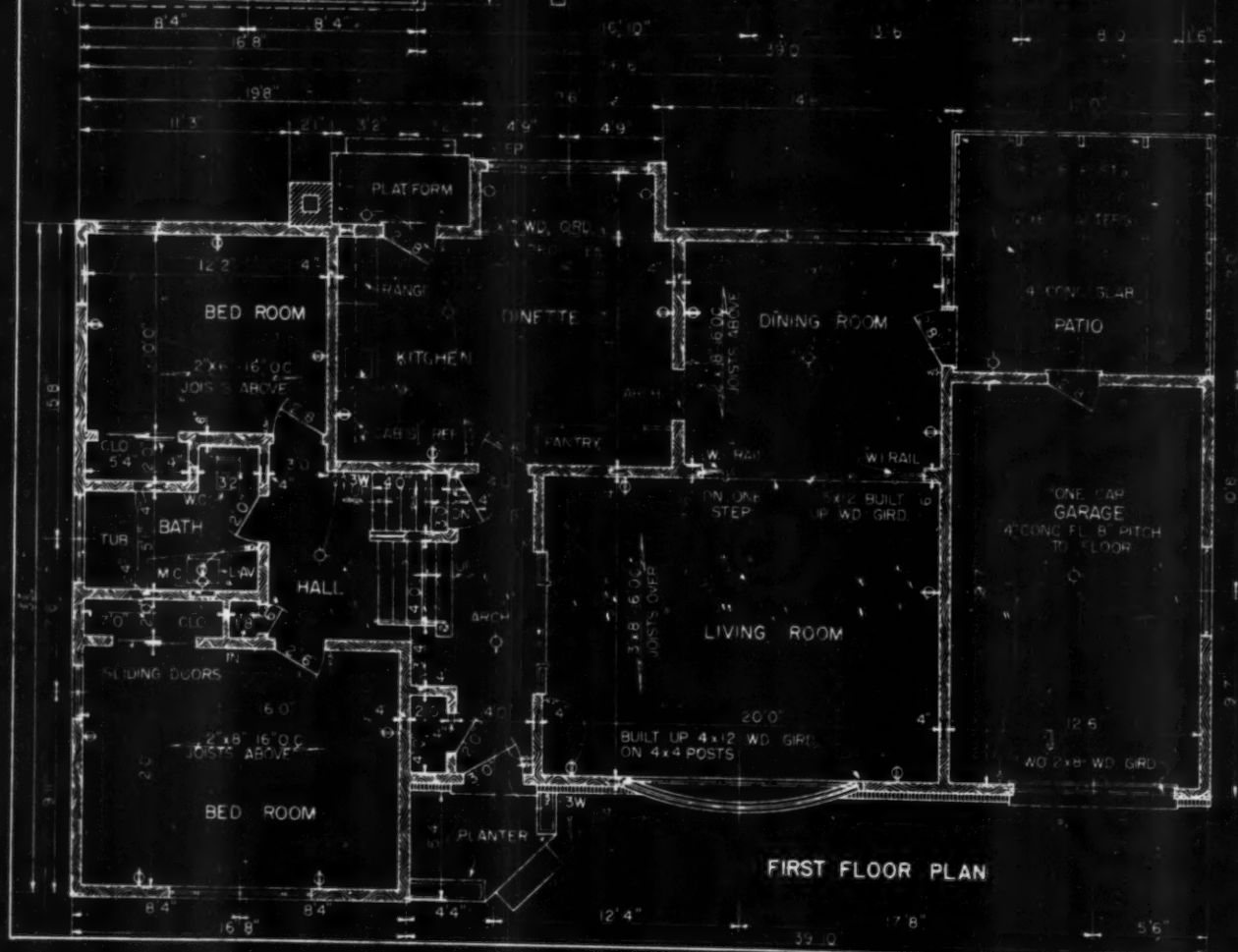
REAR ELEVATION

FRONT ELEVATION
SCALE: 1/8"=1'0"

PULL OUT FOR FLOOR PLAN



LOWER LEVEL & FOUNDATION PLAN



FIRST FLOOR PLAN

ATTIC FLOOR PLAN

CROSS SECTION

SCALE 1/8" TO

NOTE ALL DOORS ARE 6'8" HIGH UNLESS OTHERWISE NOTED

EXTERIOR DOORS ARE 1 3/4" THICK
INTERIOR DOORS ARE 1 3/8" THICK

DESIGN NO A.B. 206

AMERICAN BUILDER BLUE PRINT SERIES

DESIGNED BY

MATERN & YORK ARCHITECTS
JAMAICA L.I., N.Y.

Simmons-Boardman Publ. Corp. 79 W Monroe St., Chicago 3, Ill.

REAR ELEVATION

FRONT ELEVATION
SCALES 1/8"=1'0"

PULL OUT FOR FLOOR PLAN

Quantity List of Materials

For American Builder Blueprint House No. AB 206

Matern & York, Architects

General Information

House — Type ..... frame
Area ..... 1,360 sq. ft.
Cube ..... 30,080 cu. ft.
Average height taken for cube was 20 feet
Garage — Area ..... Included
Porch — Area ..... 144 ft.

Excavating

Trench for foundation ..... 265 lin. ft.
Chimney and column footings ..... 4 — Total 16 cu. ft.
Excavation for basement ..... 90 yards and crawl space

Cement Work

Foundations ..... 1,200 cu. ft.
Concrete work ..... 1,520 sq. ft.
Platform and front stoop included
Thickness ..... 4"
Anchor bolts ..... 5 doz. — ½"x8"
Waterproofing ..... 300 sq. ft.
Foundation vents 6

Masonry

Type ..... brick
Walls ..... 105 sq. ft. of 4" veneer
Window Sills ..... wood
Chimney ..... 2'x2'x21' high
Flue lining ..... 12" square
Cap ..... cement
Miscellaneous ..... 2 bricked-in planter boxes required

Iron Work

Lally columns ..... 3 — 3½" dia. 2'6" high
Metal railings ..... 2 wrought iron in living room

Millwork

Windows ..... casements, fixed, pivoted
Fixed ..... 18 lts. — 20"x18"
1 lt. — 52"x34"
1 lt. — 34"x24"
1 lt. — 52"x48"
1 lt. — 56"x36"
Casements ..... 2 lts. — 14"x34"
2 lts. — 14"x24"
4 lts. — 14"x48"
2 lts. — 16"x36"
12 lts. — 14"x36"
1 lt. — 54"x24"
Fixed and casement ..... 10 lts. — 16"x24"
2 lts. — 14"x32"
Exterior doors ..... wood
Rear entrance ..... 1 — 2'8"x6'8"x1¾" single panel with glazed 3 lt. opening over panel
French doors ..... 2 — 2'8"x6'8"x1¾"
Garage Doors — upward acting ..... 8'x7'
Exterior millwork
Shutters ..... 3 pair
Louvers ..... 2 — 24"/36"
Interior doors, including jambs and trim
1 — 2'8"x6'8"x1⅜"
6 — 2'6"x6'8"x1⅜"
9 — 2'0"x6'8"x1⅜"
3 — 6'0"x6'8"x1⅜"
1 — 2'8"x6'8"x1⅜"
3 — 2'0"x6'8"x1⅜"
Sliding wardrobe doors ..... 8 — 2'0"x6'8"x1⅜"
Special Interior Millwork
Stairs ..... 1 set risers to attic bedrooms
1 set risers to recreation room
1 set risers to second level
Plus: Newel, ballister, and railing

Carpentry

Beams and Girders ..... 1 built-up 8"x10" girder—28' long
1 built-up 6"x12"x10'
1 built-up 6"x12"x12'
Foundation Plates ..... 360 lin. ft. 2"x6" exterior plates
75 lin. ft. 2"x4" interior plates
Joists ..... 16 — 3"x8" — 16'
21 — 3"x6" — 16'
21 — 3"x8" — 16'
Joists (cont'd) ..... 10 — 2"x8" — 18'
8 — 2"x8" — 14'
16 — 2"x6" — 14'
40 — 2"x8" — 12'
9 — 2"x8" — 16'
Bridging ..... 500 lin. ft. 1"x3"
Studding and Plates ..... 1,500 lin. ft. 2"x4" plate
400 pcs. 2"x4" — 8'
50 pcs. 2"x4" — 10' studs
Ceiling Joist and
Roof Rafters ..... 25 — 2"x6" — 18' for attic
73 — 2"x8" — 18'
11 — 2"x6" — 18'
11 — 2"x6" — 8'
5 — 2"x6" — 14' for screened patio rafters
Framing Lintels ..... 14 lin. ft. (built up) 4"x12"
2 — 4"x4" — 8' posts
2 — 2"x8" — 10'
10 — 2"x6" posts 8' long
Subfloor ..... 2,200 sq. ft. to cover
Roof sheathing ..... 2,000 sq. ft. to cover
Side wall sheathing ..... 2,300 sq. ft. surface measure
Side wall materials ..... wood shingles
Flooring — Hardwood — area to cover ..... 1,260 sq. ft.
Softwood — area to cover ..... 300 sq. ft.
Exterior Material — Soffits ..... 200 lin. ft. 1"x8"
Eaves ..... 135 lin. ft. 1"x6"
126 lin. ft. 1"x8"
30 lin. ft. 1"x10"
Porches ..... 18 — 30"x30" screens
28 lin. ft. 1"x6" ribbon
144 sq. ft. screen wire over rafters
Miscellaneous ..... 2 hardwood carpenter-built steps (riser and tread) to sunken living room
1 set kitchen cases plus 10 lin. ft. lower case and work top
7 lin. ft. pantry case
1 — 5'6" lavatory case, Formica top
Insulation — None shown ..... walls would require 2,700 sq. ft. 2" thick blanket; ceiling would require 1,300 sq. ft.

Sheet Metal

Gutters — None shown ..... would require 132 lin. ft.
Downspouts — None shown ..... would require 1 — 18'
2 — 15'
3 — 10'
Flashing ..... G.I. at chimney plus approx. 72 lin. ft. required at roof and siding conjunction points

Roofing

Type ..... Asphalt Shingles
Area ..... 14 squares
Special built-up over dormer ..... 6 squares

Interior Walls & Ceilings

Area to be covered ..... 4,900 sq. ft. walls plus 1,800 sq. ft. of ceiling
Nothing included for recreation and utility room wall and ceiling covering.

● *This quantity list will be subject to variation depending on the common practice in various sections and municipalities of the country, the techniques of individual builders, the types of materials available locally and cost factors. The list published here is a suggested one, complete enough so that it can be used in arriving at a reasonably accurate estimate of the quantities and cost of materials that will be required to complete the structure. It was prepared by experts at the Edward Hines Lumber Co., Chicago.*

Home Builders' Guide to Reference

A BIBLIOGRAPHY
ON THE BUSINESS
OF HOME BUILDING

Compiled and edited by
Eugene Adhemar Tilleux and
Leonard G. Haeger, A. I. A.

Earl W. "Flat-Top" Smith

Leonard G. Haeger

Foreword . . . .

Each day the home builder is confronted with a variety of questions arising from the complex nature of this nation's home building industry. Answers to these questions represent a troublesome job for the industry, and the need for a simple tool to assist the builder in finding the answers has long been recognized. This bibliography, therefore, is the first effort in the history of the industry to provide individual builders with a single, comprehensive listing of source material.

The "Home Builders' Guide to Reference Material" has been prepared by the Construction Department and Research Institute of the National Association of Home Builders as a modest beginning in what is believed to be an important task—the development of a home builders' technical reference handbook.

This bibliography is organized on the basis of 14 parts, each of which reflects a step in the home building process. Reference material generally identified with these subjects is listed under each part.

Acknowledgement is made for the assistance of Eugene A. Tilleux in the preparation of the bibliography. Particular credit should be given to Earl W. Smith, builder of El Cerrito, California, whose insistence over the years on the need for a reference of this kind has finally led to its compilation.

Leonard G. Haeger, A.I.A.,
Director, Construction Department
and Research Institute,
National Association of Home Builders

EDITOR'S NOTE

Hundreds of books, pamphlets and brochures have been written about all phases of home building, but the home builder never has had a comprehensive guide to tell him what these publications said, who wrote them and where they could be obtained. American Builder is pleased to present in printed form this first compilation of published source material, which was prepared for the home building industry by the National Association of Home Builders. Still in preparation by NAHB is an index to this bibliography. It will be published by American Builder upon completion.

Material

Table of Contents

Subject Matter	Category Page
PART I. ANALYSIS OF THE HOUSING MARKET	
(a) Theory and Principles of Housing Market Analysis	1– 84
(b) Application of the Method (Prototype Studies)	31– 85
PART II. LAND ACQUISITION, LAND PLANNING AND LAND DEVELOPMENT	
(a) Land, Land Acquisition, and Land Planning	51– 87
(b) Land Development and Subdivision	71– 88
(c) Neighborhood Planning	91– 90
(d) Trailer Court Development	101– 92
(e) Land Redevelopment	111– 94
PART III. PLANNING AND DESIGN	
(a) Structural Design	121–101
(b) Climate, Humidity and Insulation	181–112
(c) Controlling Condensation	211–116
(d) Heating and Ventilation	221–117
(e) Plumbing Design	241–119
(f) Modular Coordination	261–126
(g) Controlling Infestation	281–128
(h) Specification Writing	291–128
PART IV. BUILDING MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION	
(a) Special Construction for Walls, Partitions, Floors, and Roofs	301–128
(b) Floors	401–160
(c) Floor Coverings	441–161
(d) Fiber Building Boards	461–164
(e) Roofs and Roofing	481–165
(f) Concrete and Concrete Aggregates	511–168
(g) Plumbing and Piping	551–172
(h) Septic Tanks and Other Sewage Disposal Systems	571–176
(i) Garbage Grinders	591–186
(j) Paint, and Painting Techniques	601–186
(k) Heating Systems, Equipment, and Techniques	621–188
(l) Moisture Resistance, Insulation, and Vapor Barriers	641–190
(m) Electrical Wiring	661–191
(n) Fire Resistance of Materials	681–191
(o) Nails and Nailing	701–198
(p) Miscellaneous Building Materials	711–203
(q) Quantities of Building Materials Consumed	751–211
(r) Self-Help Housing Construction	761–215
PART V. MANAGEMENT OF THE HOME BUILDING BUSINESS	
(a) Analysis of the Industry	801–215
(b) Management Problems	821–216
PART VI. FINANCING	
(a) Theory and Principles of Housing Finance	841–220
(b) Application of the Method (Prototype Studies)	871–224
PART VII. LABOR RELATIONS	891–227
PART VIII. BUILDING, ZONING, AND SUBDIVISION REGULATIONS	
(a) Building Codes and Regulations	901–227
(b) Plumbing Codes	921–231
(c) Zoning Regulations	931–235
(d) Subdivision Regulations	941–235
PART IX. MERCHANDISING	
(a) Real Estate Sales Principles	961–236
(b) Advertising	981–236
(c) Selling Techniques	1001–238
PART X. MAINTENANCE	1031–238
PART XI. BOOKS COVERING HOUSING IN A GENERAL WAY	
(a) The Current Housing Scene	1051–240
(b) Housing Special-Interest Groups	1091–243
(c) To Buy or Not to Buy	1151–245
PART XII. HOUSING RESEARCH	
(a) Research Methods and Equipment	1181–245
(b) General Descriptions of Research Projects	1201–246
(c) H.H.F.A. Research Publications	1221–251
(d) Other Housing Research Series	1231–256
PART XIII. GLOSSARIES	1241–257
PART XIV. BIBLIOGRAPHIES	1261–257

PART I

ANALYSIS of the HOUSING MARKET

(a) Theory and Principles of Housing Market Analysis

(1) "THE REAL ESTATE MARKET" —Chapter 8 (pages 142-167) of PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weimer and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: $5.00

This chapter considers: 1. Market Competition; 2. Types of Real Estate Markets; 3. Tendency Toward Uniform Price; 4. Criteria of an Efficient Market; 6. Function 1: Meeting Sudden or Temporary Changes in Space Requirements; 7. Controlled versus Competitive Prices; 8. Function 2: Adjusting Supplies of Space to Changed Requirements; 9. Function 3: Land Use Determination; 10. Competitive Forces and Social Control; 11. The Market in Operation; 12. Factors Conditioning Cyclical Variations; 13. Early Stages of the Cycle; 14. Later Stages of the Cycle; 15. Is there a National Cycle of Real Estate Activity?; 16. The Real Estate Cycle and the Business Cycle; 17. What of Future Real Estate Cycles?

(2) "THE HOUSING MARKET"—Chapter 11 (pages 302-345) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949. —533 pages; price: $6.50

This chapter considers: 1. The Housing Stock; 2. The Market for Building Lots; 3. Rental Market; 4. Existing Stock of Rental Units; 5. Marketing Rental Dwellings; 6. Rental Housing Origins; 7. Market for Homes; 8. Value Stratification and Filtering; 9. Surplus as a Requisite; 10. Change in Quality; 11. Need for New Construction; 12. Surplus as a Check on Production; 13. Surplus at the Bottom; 14. Accelerated Depreciation; 15. Time Dimension in Filtering; 16. Market Experience with Filtering; 17. Long-Run Possibilities; 18. Filtering Cannot Be Forced; 19. Conclusions on Filtering; 20. Cyclical Fluctuations; 21. Market Indicators; 22. Seasonal Fluctuations; 23. Cyclical Sequence; 24. Recent Housing Market History; and 25. Manifestations of Instability.

(3) "THE NATURE OF THE REAL ESTATE MARKET"—Chapter XIII (pages 221-242) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Development of Market Organization; 2. Nature of the Real Estate Market; 3. The Price of Real Estate; 4. Other Characteristics of the Price of Real Estate; 5. Sources of Information; 6. Distinction Between Demand and Need; 7. The Demand Factors; 8. Population Changes; 9. What is a Household?; 10. Qualitative Characteristics of Demand; 11. Wage and Employment Conditions; 12. Financing as a Factor of Demand; 13. Abnormal Conditions; 14. The Supply of Properties; 15. More Intensive Use of Existing Properties; 16. New Construction; 17. Construction Loans; 18. Holdings of Financial Institutions; 19. Agencies in the Real Estate Market; 20. Licensing of Brokers; 21. Maintenance of Broker Standards; and 22. Heterogeneous and Fluctuating Character of the Real Estate Market.

(4) "THE BEHAVIOR OF THE HOUSING MARKET"—Chapter 7 (pages 175-206) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. SOME CRUCIAL FACTORS IN THE HOUSING MARKET; a. The Variability of Demand; b. The Stability of Supply; 2. FLUCTUATIONS IN THE BUILDING AND MARKETING OF HOMES; a. The Pattern of Building and Real Estate Cycles; b. What Influences the Cycle; 3. THE PROBLEM OF PRICE ADJUSTMENT; a. Slow Movement of Housing Prices; b. Price Stickiness and the Violence of the Building Cycle; c. Price Stickiness and Housing Surpluses; 4. CAN MARKET MALADJUSTMENTS BE LESSENED?; 5. SUMMARY.

(5) "PRICE FLUCTUATIONS AND REAL ESTATE CYCLES—Chapter XIV (pages 243-262) of REAL ESTATE ANALYSIS; by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. The Record of Building Cycles; 2. Real Estate Prices; 3. Rapidity of Rise in Recent Years; 4. Analysis of Recent Price Increases; 5. Increasing Volume and Rising Prices; 6. Deed Recordings; 7. Fluctuations in Deed Recordings; 8. Land Prices; 9. Apartment House Prices; 10. Commercial and Office Buildings; 11. The Nature of Cycles; 12. The Real Estate Cycle; 13. Relationship between Real Estate and Business Cycles; 14. War and Cycles; 15. Demand and Supply; 16. Behind Supply and Demand; 17. The Importance of Public Confidence; 18. Jerry Building; 19. Speculation in Real Estate; and 20. Value and Price.

(6) "THE MECHANICS OF THE HOUSING MARKET"—Chapter 8 (pages 207-224) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. SPECIAL PROBLEMS OF THE HOUSING MARKET; a. Matching Houses to People; b. Problems of Valuation and Pricing; c. Problems of a Divided Market; 2. COMPLEXITY OF HOUSING TRANSACTIONS; a. Peculiarities of Real Estate Ownership; b. Title to Real Estate; c. The Cost of Real Estate Transactions; 3. HOW HOUSES ARE MARKETED; a. The Real-Estate Broker; b. Costs of Distribution; c. Other Types of Distributing Organizations; 4. SUMMARY.

(7) "DEMAND FOR HOUSING" Chapter 4 (pages 87-122 of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Company, Inc., New York, Toronto, London, 1949.—533 pages; price: $6.50.

This chapter considers: 1. The Quantity of Demand for Housing; 2. Marriages; 3. Death and Divorce; 4. Migration; 5. Sharing of Dwellings; 6. Population and Demand; 7. Elasticity of Demand; 8. Measuring the Quantity of Demand; 9. Qualitative Aspects of Demand; 10. Tenure; 11. Recent History of Home Ownership; 12. Basic Forces Affecting Tenure; 13. Custom; 14. Occupation; 15. Age and Family Status; 16. Financial Status; 17. Relative Costs; 18. Other Forms of Tenure; 19. Type and Size; 20. Style; 21. Location; 22. Price and Rent; 23. Testing the Quality of Demand; and 24. Housing for Unattached Adults.

(8) "THE MARKET FOR RESIDENTIAL LEASEHOLDS"—Chapter 5 (pages 91-119) of URBAN REAL ESTATE MARKETS: CHARACTERISTICS AND FINANCING by Ernest M. Fisher, Columbia University; Financial Research Program; Studies in Urban Mortgage Financing; published by National Bureau of Economic Research, 1819 Broadway, New York 23, N. Y., 1951.—186 pages; price: $3.00

This chapter considers: 1. Characteristics of the Residential Leasehold Estate; 2. Characteristics of the Market for Residential Leasehold Estates; 3. Behavior of the Residential Rental Market; 4. Reaction of Rising Incomes; 5. Characteristics of a Seller's Market; 6. The Market in Transition; 7. Characteristics of a Buyer's Market; 8. The Effects of Rent Control on the Residential Rental Market; and 9. Summary.

(9) "THE MARKET FOR HOMES IN FEE"—Chapter 3 (pages 38—60) of URBAN REAL ESTATE MARKETS: CHARACTERISTICS AND FINANCING by Ernest M. Fisher, Columbia University; Financial Research Program; Studies in Urban Mortgage Financing; published by National Bureau of Economic Research, 1819 Broadway, New York 23, N.Y., 1951.—186 pages; price: $3.00

This chapter considers: 1. Percentage of Homes Owner-Occupied; 2. Influences Affecting Percentage of Home Ownership; 3. Length of Tenure of Owner-Occupied Homes; 4. Characteristics of the Home Ownership Market; 5. Characteristics of a Buyer's Market; 6. Measurement of Foreclosure and Surrender Rate in a Buyer's Market; 7. Transition from a Buyer's to a Seller's Market; 9. Market Changes and Price Movements; and 10. Effects on the Volume of Home Building.

(10) "SURVEYING THE MARKET" (for Subdivisions)—Chapter 8 pages 67-73) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949. —394 pages; price: $5.75

This chapter considers: 1. Introduction; 2. Effects of the Depression in the '30's; 3. Importance of Surveys and Planning; 4. Dr. Fisher's Survey of "Real Estate Subdivision Activity and Population Growth in Nine Urban Areas"; 5. Information Essential to Proper Analysis of Market for Subdivisions; 6. N.A.R.E.B. Survey of Who Buys and Why; 7. Improved vs. Unimproved Lots; and 8. Customary Front-Foot Prices and Widths.

(11) "REAL ESTATE MARKET ANALYSIS"—Chapter 9 (pages 168-

177) of PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weimer and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.–512 pages; price: $5.00.

This chapter considers: 1. Importance of Market Analysis; 2. Extent and Character of the Market; 3. Demand Forces; 4. Supply Factors; 5. Relative Prices–Catalytic Agents; 6. Postion of the Cycle; and 7. Need for Caution in Reaching Conclusions.

(12) "MOBILITY AND MIGRATION AS FACTORS IN HOUSING DEMAND" by E. Everett Ashley, 3d; In *Housing Research*, October 1953, pages 1-7; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. The declining rate of family formation has focused attention upon its probable impact upon the volume of new residential building. This article examines the importance of factors other than family formation upon the demand for new housing. It presents evidence that migration and mobility can be important elements in determining the volume of new construction. The report, prepared as a staff project, is illustrated by two charts and seven tables.

(13) "HOW IMPORTANT ARE CONVERSIONS IN THE CURRENT HOUSING SCENE?" by Benjamin Lipstein; In *Housing Research*, Spring 1952, pages 1-14; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Summary of Results; 3. What is a Conversion?; 4. What is a Dwelling Unit?; 5. Annual Volume of Conversions and of New Rental Housing; (a) Baltimore Area; (b) Norfolk Area; 6. Characteristics of Converted Units; (a) Added facilities–and their cost; (b) Location; 7. Characteristics of the Structures Containing Converted Units; (a) Type of structure; (b) Age of structure; (c) Race of occupant; (d) Overcrowding; 8. Negative Conversions; 9. Characteristics of Negative Conversions; (a) Location; (b) Age of structure; (c) Race of occupants; (d) Rental level; 10. National Implications; and 11. Reliability of Estimates on Conversions.

ABSTRACT. Changes in the housing supply are the result of new construction, conversion of existing structures, and losses from demolition, disasters, or reconversions. Good information is available only on new residential construction. To fill this gap in our information HHFA awarded a research contract to the Bureau of Labor Statistics, U. S. Department of Labor, to study the feasibility of measuring conversions and demolitions on a current basis. Pilot studies were made in the Baltimore and Norfolk-Portsmouth areas. This article highlights some of the findings with regard to the conversion aspect of the problem. The research was conducted by Mr. Lipstein under the direction of H. E. Riley, Chief, Division of Construction Statistics, BLS. Arthur Gernand was HHFA staff technician on the project.

(14) "WHY PEOPLE BUY THE HOUSES THEY DO" by Edward T. Paxton; In *Housing Research*, October 1952, pages 1-7; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Summarizes the results of a personal-interview survey of home-owner occupants in the upper-, middle-, and lower-third income groups who purchased dwellings in 1949 and the first half of 1950 in nine of the Nation's big metropolitan areas and in a representative and widely distributed sample of smaller cities and towns. This article reviews some of the chief findings of the survey, such as family size, age, and income characteristics of buyers of homes in different price classes, and the reasons for selecting the type of home purchased. The survey was conducted by the Survey Research Center of the University of Michigan under a contract with HHFA's Division of Housing Research. Includes a consideration of: 1. The Survey; 2. Who were the Buyers?; 3. Why were these People in the Market?; 4. Why Buyers Decided not to Rent; 5. What did They Want and What did They Get?; (a) Number of stories; (b) Material; (c) Basement; (d) Number of Rooms; 6. The Prices Paid; 7. Were the Buyers Satisfied?; and 8. In Summary.

(b) Application of the Method (Prototype Studies)

(31) HOUSING IN FRONT ROYAL VIRGINIA, FACTS AND TRENDS –Prepared and published by The American University, Washington, D. C., 1946.–93 pages, mimeographed; price: not stated. Order copies from The American University, Washington, D. C.

The work includes: 1. Summary of Analysis; 2. The Housing Market Area; 3. The Economic Background; (a) Significance of economic background; (b) Economic background of Front Royal Town; (i) Manufacturing; (A) American Viscose Corporation; (B) Other industries; (ii) Tourist trade; (iii) Retail trade; (iv) Construction; (c) Front Royal's "Tributary" area; (i) Agriculture; (ii) Wholesale trade; (iii) Mining and quarrying; (d) Summary; 4. Housing Demand: Population–Households; (a) Population; (b) Number of households; (c) Estimated income in Front Royal; (i) Trend of income payments in Warren county; (ii) Estimated Warren county incomes –a check; (iii) Income in the Front Royal housing market; (iv) Aggregate and average family income in Front Royal; (v) Estimated distribution of income among Front Royal households in 1950; (d) Estimated total demand for housing in Front Royal in 1950; (i) Tenancy versus ownership; (ii) Probable rental levels; (iii) Probable sales prices; (e) Cost of living; 5. Housing Supply; (a) Supply as of 1950; (i) Tenure and occupancy; (ii) Type of structure and size of unit; (iii) Year built; (iv) Condition of units and structures; (v) Price of housing; (vi) Summary; (b) Building since 1940; 6. Local Market Activities; (a) Current condition of the market: houses versus families; (i) Vacancies; (ii) The level of rents and sales prices; (iii) Doubling up and overcrowding; (iv) Real estate activity; (b) Market prospects; (i) Summary of need; 7. Production capacity; (a) Capacity of the local building industry; (b) Building materials–availability and cost; (c) Labor–availability and cost; (d) Sites and raw land–availability and cost; (e) Construction money and financing the buyer; (f) The local tax structure; (g) Community controls; 8. The Next Four Years; (a) Filtration; and 9. Appendices. The work also includes two maps and seven charts.

ABSTRACT. This analysis was undertaken by a group of students in a course in housing offered at the American University, in Washington, D. C., in cooperation with the National Housing Agency, and taught by Glenn H. Beyer, Director of the Market Research Division, Program Planning Branch, of N.H.A. Members of the class who actually compiled the information and data necessary (in field trips to Front Royal, as well as from many other sources) and who undertook the analysis and prepared the final report are: Milton I. Cover, Robert O. Davenport, V. Rebecca Finkelstein, Mary B. Geiser, A. Stanley McGaughan, Ernest W. McIntosh, Corienne K. Robinson, J. Hugh Rose, Henry Schechter, and Nathan H. Schein.

(32) METROPOLITAN SAN DIEGO HOUSING SURVEY–JUNE 1948 –Prepared and published by Institute of Public Opinion, San Diego State College Foundation, 1948.–200 pages; mimeographed; price: not stated. Order copies from Institute of Public Opinion, San Diego State College Foundation, San Diego, California.

Includes a consideration of: 1. The Questionnaire; 2. Organization and Procedure; 3. Validity and Reliability; 4. Survey and Statistics; (a) Living conditions; (i) Private housing; (ii) Public housing (b) Tenant rents–purchase price of owner-occupied dwelling units; (c) Occupation and income; (d) Private single dwelling units for sale; (e) Families now looking for other dwelling units; (f) Families who may look for other dwelling units in the future; (g) Summary; 5. Supplementary Statistics.

ABSTRACT. This work includes 126 tables and a folding diagrammatic map of the San Diego community areas. Metropolitan San Diego experienced a very marked increase in population during the World War II period, almost doubling in size between 1940 and 1948. During this period San Diego acquired one of the largest public war housing developments on the Pacific Coast. Decisions which would promote the best interests of the people of metropolitan San Diego had to be made with regard to the disposition of this war housing; and with regard to other housing matters. The cities of San Diego, Chula Vista, and National Vista joined with the U. S. Public Housing Administration in sponsoring an analysis of the social and economic characteristics of the people living in the metropolitan area. The report was prepared largely by Dr. Oscar J. Kaplan, Director, Institute of Public Opinion. Suzanne Seabrook, Guy Simmons, and John E. Westrick assisted in the management of the project. Dr. Clarence G. Osborn, of San Diego State College, served as Chairman of the policy-making committee governing this survey. Particularly helpful assistance was given by Wayne F. Daugherty, former Regional Economist of the Public Housing Administration and by Robert B. Pitts, his program planning assistant.

(33) GREATER SEATTLE HOUSING MARKET SURVEY–Prepared by Bayard O. Wheeler and Edith Dyer Rainboth, under the direction of the Bureau of Business Research, College of Business Administration, University of Washington, of which N. H. Engle is Director; published by the University of Washington Press, Seattle, Washington, in 1948.–192 pages; price: not stated. Obtain copies from The University of Washington Press, Seattle, Washington.

The work includes: 1. Introduction; 2. Demand for Housing; (a) Total demand; (b) Market tests of demand; 3. Price of House; (a) New and used houses; (b) Home owners and tenants; (c) Cash buyers; 4. Down Payment; (a) Down payment and price; new and used houses; 5. Monthly Payments; (a) Monthly payments and price; new and used houses; 6. Price of House Related to Down Payment and Monthly Payments; (a) Down payment and price of house; (b) Monthly payments and price of house; 7. Income of Families Planning to Buy or Build; (a) Comparison with income of all families in Greater Seattle Area; (b) Home owners and tenants; (c) New and used houses; 8. Income Related to Price of House, Down Payment and Monthly Payments; (a) Price of House and Income; (b) Down payment and income; (c) Monthly payments and income; 9. Location Preference; (a) Areas within and outside the City of Seattle; (b) Comparison of areas by income and price of house; (c) New and used houses; (d) Mobility of the housing market; 10. Preference in Housing Characteristics; (a) Type of construction; (b) Number of bedrooms and bathrooms; (c) Room requirements, basement, fireplace, and garage; (d) Type of heating; (e) Type of heating and choice of house; (f) Heating fuel;

(g) Heating fuel and price of house; 11. Length of Residence in Present House and in Seattle; (a) Residence in present house; (b) Residence in Seattle; 12. Degree of Satisfaction with Present House; 13. Net Market; 14. The Rental Market; (a) Gross rent; (b) Income and gross rent; (c) Type of structure preferred; (d) Number of bedrooms preferred; 15. Housing Inventory, Rental Rates, and Family Income; (a) Number of dwelling units and type of structure; (b) Monthly rent; (c) Number of rooms; (d) Number of persons per room; (e) Income of all families in Greater Seattle; (f) Occupation, industry, and class of worker; 16. Veterans in the Housing Market; (a) Housing plans; (b) Price of house; (c) Income of families planning to buy or build; (d) Size of family; 17. Summary; 18. Appendix A: Detailed Tables; 19. Appendix B: Glossary; 20. Appendix C: Methodology.

ABSTRACT. This survey was sponsored by The Mayor's Emergency Housing Committee, of which F. R. McAbee was Chairman. The Project Advisory Committee was headed by George W. Coplen, Chairman, and August L. Zellner. In actual survey operations Mr. Engle was assisted by Mrs. Katharine Beaumont, Robert W. Gibson, Helen R. Potter, Gilbert L. Johnston, and Monroe G. Sirken. The Technical Advisory Committee included Miner Baker, Joseph Cohen, Gene M. Conger, Joseph Demmery, Stuart E. Dodd, Leonard Ludwin, Robert O'Brien, Guy E. Rainboth, and Calvin F. Schmid. Valuable contributions to the survey were also made by Robert G. Seymour and Marilyn Druck.

(34) HOUSING NEEDS IN GREATER KALAMAZOO by Julius T. Wendzel and Eugene C. McKean; published by The W. E. Upjohn Institute for Community Research, American National Bank Building, Kalamazoo 4, Michigan, in December 1948.—23 pages, mimeographed; price: not stated. Order copies from The W. E. Upjohn Institute for Community Research, 709 South Westnedge Avenue, Kalamazoo, Michigan.

Includes a consideration of: 1. Summary; 2. Purpose; 3. Method; 4. Population and Family Formation; (a) Population growth; (b) Cyclical pattern; (c) Families; 5. Families and Housing Needs as of July 1948; (a) Vacancy needs; (b) Housing available; (c) The replacement market; (d) The backlog of housing needs, July 1948; 6. Future Development of Housing Needs; 7. Summary of Housing Need and Related Building Rates; (a) Estimates tentative; 8. Significance of Findings.

ABSTRACT. This report, based in part on background studies of Kalamazoo housing made by Dr. Raymond L. Hightower, professor of sociology at Kalamazoo College, while assisting with the survey, disclose the need in Greater Kalamazoo (in 1948) of 5,000 new dwelling units. This need results from two basic trends: (1) for several decades the population of Greater Kalamazoo has been increasing much faster than that of the nation; and (2) for some years the rate of new home building in greater Kalamazoo has been relatively low.

(35) THE DEMAND FOR NEW HOUSING IN KALAMAZOO COUNTY: 1951-1960, by Julius T. Wendzel and Eugene C. McKean; published by The W. E. Upjohn Institute for Community Research, 709 South Westnedge Avenue, Kalamazoo, Michigan, August, 1951.—14 pages; mimeographed, spiral binding; price: not stated. Order copies from The W. E. Upjohn Institute for Community Research, Kalamazoo, Michigan.

Includes a consideration of: 1. Summary; 2. The Demand Estimates; (a) Factors influencing new housing demand; (i) County population growing rapidly; (ii) Income prospects good; (b) Calculation of demand estimates, 1951-60; (i) Dollar demand for new housing; (ii) Demand in terms of dwelling units; (c) Comparison of estimates; (i) Estimates compared with past building rates; (ii) Estimates compared with housing needs; 3. Variation in Demand; 4. Local Action and New Housing Demand; (a) Expanding demand; (b) Minimizing demand variations.

ABSTRACT. The following conclusions result from the survey: (1) The demand for new housing is apt to average high and to follow a rising trend through the decade of the fifties; (2) Appraisal of short-run influences on new housing demand in relation to the generally rising trend suggests a relatively stable demand for new housing in Kalamazoo County during the decade ahead; and (3) Local action can contribute toward a maximum level of new housing demand and toward minimizing any potential recession in such demand. Besides the authors, the W. E. Upjohn Institute for Community Research includes: Dr. Harold C. Taylor, Winona L. Swope, Melba E. Murphy, Dr. Charles C. Gibbons, Henry C. Thole, Edith R. Brown, Samuel V. Bennett, Jack E. Jordan, and Catherine C. Douglass.

(36) HOUSING SURVEY OF GREATER PORTLAND—OCTOBER 1949—Prepared as of October 1949 and published in March 1950 by Dan E. Clark II and Associates. —89 pages; price: not stated. Copies probably are available from Dan E. Clark II and Associates, Oregonian Building, Portland 1, Oregon, or from the City of Portland, Oregon, which sponsored the survey.

The work includes: 1. Map of Greater Portland Area; 2. Condition of Housing; (a) The general picture; (b) Occupancy characteristics; (c) Rent and income; (d) Income and occupants; (e) A Qualitative inventory; 3. Reaction to Housing; (a) Satisfaction and adequacy; 4. The Housing Market; (a) Plans to move; (b) Purchase price planned; (c) Down payment planned; (d) Monthly payments planned; (e) Income and assets; (f) Construction features; (g) Housing demand; (h) Where will they move, and why?; (i) The rental market; (j) Disposition of owned homes by families planning to move; (k) Factors which influence choice of location in which to live; 5. Financial Facts; (a) The financial picture; (b) Liquid assets; (c) Income expectations of all families; (d) Conclusions; 6. Methodology; (a) Selection of fields of inquiry; (b) Listing of dwelling units; (c) Selection of sample; (d) Interviewing and processing of interviews; (e) Preparation of report; 7. The Statistics; (a) How to read them; (b) Reliability of estimates; (c) Sampling variation tables; 8. Families in Public Housing; 9. Glossary; and 10. Interviewing Schedule.

ABSTRACT: This work, which includes 92 tables and 11 figures, is an inventory of housing on hand and an analysis of housing needed. With the outbreak of World War II, population and industry within the Greater Portland area expanded at an unprecedented, and sometimes alarming rate. While Portland prospered through this war-born migration of workers and industry, it also suffered from a lack of adequate housing for its newly-arrived population. Stopgap measures were adopted to meet this problem. Single dwelling units were converted into multiple-type structures. The Federal Government erected 18,500 temporary war housing units. Trailer camps and motels flourished. Hotel rooms became permanent living quarters. The war's end afforded little immediate relief. Although several thousand workers left the area, there was no mass exodus. The housing problem continued and was further aggravated by the Vanport disaster which erased 6,300 dwelling units from the housing market. The outlook for the future was darkened by the prospect of early removal of remaining temporary housing units. By mid-1949, it was felt that the acute phase of the housing shortage had been somewhat relieved by widespread construction of new housing. In order to plan a long-range program for adequate, permanent housing, this survey was undertaken to provide reliable information about the condition of existing housing, the probable future demand for housing, and the financial ability of families to meet their particular housing needs. The survey was directed by Dan E. Clark II, J. Roy Bardsley, and N. Robert Heyer. Seymour Fiekowsky was project statistician. Research Consultants were Dr. Chilton R. Bush of Stanford University, Dean Clifford Weigle of the University of Oregon, and Dr. Gordon Sabine of the University of Oregon.

(37) A SURVEY OF HOUSING IN PORTLAND, OREGON—Prepared as of October 1949 and published about July 1950 by Dan E. Clark II and Associates.—119 pages, mimeographed; price: not stated. Copies probably are available from Dan E. Clark II and Associates, Oregonian Building, Portland 1, Oregon, or from the Housing Authority of Portland, for which the study was made.

The work includes: 1. Map of Greater Portland; 2. Map of Major Substandard Areas; 3. Foreword; 4. Summary Highlights; (a) Dwelling unit characteristics; (i) Occupancy; (ii) Adequacy; (iii) Race; (iv) Condition; (v) Tenancy; (b) Family characteristics; (i) Adequacy and tenure; (ii) Density; (iii) Family composition; (iv) Income; (v) Subfamilies; 5. The Statistics; (a) Table 1. Summary characteristics of surveyed dwelling units; (b) Table 2. Characteristics of privately owned occupied dwelling units by race, adequacy, and tenure; (c) Table 3. Contract and gross monthly rent by race and adequacy of privately owned dwelling units for tenant occupied dwelling units; (d) Table 4. Gross monthly rent by race, condition, and basic facilities of privately owned dwelling units for tenant occupied dwellings; (e) Table 5. Characteristics of two or more person families in privately owned dwelling units by race, adequacy, and tenure of dwelling; (f) Table 6. Annual income of two or more person families by number of minors in privately owned dwelling units by race, adequacy, and tenure of dwelling; (g) Table 7. Characteristics of two or more person families with and without subfamilies by adequacy of dwelling; 6. Technical Appendix; (a) Methodology; (i) Sampling variation tables for samples A and C; (ii) Sampling variation tables for sample B; and 7. Glossary. (The "glossary" section is merely a reference to pp. 79-87 of the "Housing Survey of Greater Portland" report, which is item (36) of this reading list.).

ABSTRACT. This report is designed as a supplement to the "Housing Survey of Greater Portland—October 1949" which is item (36) of this reading list. In addition to the 4 percent sample on which the parent report was based and which forms the backbone of the present report, a more intensive sampling of housing was made in an area designated by the Housing Authority as the "major substandard area." This is known as "Sample B." The total Greater Portland Area is known as "Sample A." The Greater Portland Area outside of the Major Substandard Area is known as "Sample C." Robert Heyer, Pacific Northwest Manager for Dan E. Clark II and Associates, served as director of the survey.

(38) RECENT TRENDS IN THE HOUSING MARKET OF PITTSBURGH AND ALLEGHENY COUNTY by Max Nurnberg; published by Allegheny Conference on Community Development, 508 Magee Building, Pittsburgh 22, Pennsylvania, June 1950.—96 pages, mimeographed; price: not stated. Order copies from the Allegheny Conference on Community Development.

Includes a consideration of: 1. Summary; 2. Introduction; 3. The New Housing Supply of 1949; (a) The volume of construction; (b) Rate of local expansion behind nationwide average; (c) The location of new housing; (d) More emphasis on rental housing; (e) Repairs, modernizations, and conversions; (f) Few demolitions; (g) Construction costs far from stabilized; (h) Prices and rents of new construction; 4. Housing Inventory as of January 1, 1950; (a) Net addition in Pittsburgh 6.7%, in Allegheny County 10.6%; (b) The significance of this expansion; (c) Existing occupancy conditions; (i) Vacancies few; (ii) Owner-occupancy increasing; (iii) Much unfit housing still in use; 5. The Overall Housing Need; (a) The purpose of need estimates; (b) The components of the housing need; (i) Increase in population; (ii) Needed rehabilitation or replacement of unfit shelter; (iii) Need for an adequate vacancy reserve; (c) The total housing need; 6. The Housing Demand; (a) General demand data; (b) The demand for owned homes; (i) The demand supported by incomes; (ii) Ad-

justment for savings; (iii) Buying intentions; (c) The demand for rental housing; (i) The rents prevailing in 1949; (ii) The number of families able to rent; (iii) The intentions to rent; (iv) The potential demand; (d) The demand backlog at the end of 1949; 7. Easier Financing; (a) General mortgage market conditions; (b) Financing facilitated by government assistance; (i) Increasing influence of FHA operations; (ii) Expansion of GI-loan guarantees; 8. The outlook for the remainder of 1950; (a) The volume of new private housing; (b) Public assistance to low-rent and medium rental housing; (c) Urban redevelopment; (d) Repair and rehabilitation work; (e) Construction costs and prices; (f) Incomes and savings; (g) Conditions of the housing demand; (h) Financing; (i) Conclusions.

ABSTRACT. This work includes 20 tables and appendices, and two graphs. Changes in the local housing market subsequent to the issuance, by the Allegheny Conference on Community Development in January 1949, of "A Housing Program for Pittsburgh and Allegheny County," and the uncertain outlook for residential construction, suggested the need for more recent data. The present report was therefore prepared in order to present available evidence on the (June 1950) current volume of construction, housing needs, and housing demand for the benefit of those who depend upon such data.

(39) A SHORT-TERM FORECAST OF THE HOUSING MARKET, JACKSONVILLE, FLORIDA by Reinhold P. Wolff, Director, Bureau of Business and Economic Research, University of Miami, Coral Gables, Florida, with the assistance of Professors Martin Deutsch, Joseph H. Young and Allen Chester, and of David K. Gillogly. The project was sponsored by the Housing and Home Finance Agency, Division of Housing Research, and was generally supervised for HHFA by Ernest H. Jurkat and E. Everett Ashley, 3d. Published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in June 1953.—65 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Scope and Object of the Study; 2. General Description and Economic Characteristics of the Jacksonville Area; 3. Methodology; 4. Housing Trend; 5. Population Trend; 6. Establishment of New Households by Marriage; 7. Families Without Their Own Households; 8. Economic Conditions; (a) Employment and income; (b) The mortgage market; 9. Vacancy Rates, History, and Present Estimates; 10. Determination of Market Balance; 11. Forecast of Total Housing Demand, 1951-1955; (a) Forecast of normal demand; (b) Forecast of minimum demand; (c) Forecast of maximum demand; 12. Inventory and Forecast by Parts; (a) Inventory and Forecast by type of structure and exterior; 13. Inventory and Forecast by Area; 14. Inventory and Forecast by Race; 15. Inventory and Forecast by Home Ownership and Rentals; 16. Inventory and Forecast by Cost-Classes; (a) Owner-occupied homes; (b) Rentals (tenant-occupied units); 17. Appendix; (a) Method of making intercensus interpolations of dwelling units; (b) Analysis of the growth trend of dwelling units, Duval County, 1920-1950; (c) Method of intercensus interpolation of population in Duval County; (d) Analysis of the growth trend of population; (e) Forecast of normal demand, 1951-1955; (f) Forecast of minimum demand, 1951-1955; (g) Forecast of maximum demand; (h) Population of State of Florida, 1920-1950; (i) Review by American Marketing Association, Advisory Committee on Research.

ABSTRACT. This monograph, with its five charts and 44 tables, discusses an aspect of a low-cost technique for local housing-market analysis. Interest in the availability of more precise methods of determining present and prospective demand for shelter has been growing steadily in the housing field, with an increasing awareness among thoughtful civic leaders that the resolution of local housing problems can best be accomplished if at the outset there is a competent analysis of the current housing situation. Therefore, HHFA entered into a research contract whereby the University of Miami (Florida) undertook an experimental short-term forecast of the housing market in a moderate-size industrial community to test the feasibility of applying simple population forecasting techniques to housing market analysis. Jacksonville, Florida, was selected for the study. This selection provided an opportunity for coordinating results with those of a companion analysis on the characteristics of the mortgage market in a medium-size city, published as HHFA Housing Research Paper 23: *Residential Mortgage Financing, Jacksonville, Florida. First Six Months of 1950*, which is listed as item (874) of this reading list.

PART II

LAND ACQUISITION, LAND PLANNING, and LAND DEVELOPMENT

(a) Land, Land Acquisition, and Land Planning

(51) LAND ECONOMICS; PRINCIPLES, PROBLEMS AND POLICIES by Roland R. Renne, Montana State College; published by Harper & Brothers, New York and London, 1947.—736 pages; price: $5.00.

The several Parts and Chapters of this work cover the following topics: PART I: BACKGROUND AND PERSPECTIVES; 1. The Field of Land Economics; PART II: PRINCIPLES OF LAND UTILIZATION; 2. The Supply of Land; 3. The Demand for Land; 4. Land Appropriation; 5. Economic Processes in Land Utilization; 6. Land Rent and Income Distribution; PART III: MAJOR LAND USES; 7. Agricultural Land; 8. Forest Land; 9. Recreational Land; 10. Mineral Resources; 11. Water Resources; 12. Transportation; 13. Urban Land; PART IV: LAND USE PROBLEMS AND POLICIES; 14. Land Tenure and Tenancy; 15. Land Valuation and Credit; 16. Land Taxation; 17. Conservation of Land Resources; PART V: PLANNING AND CONTROL OF LAND USE; 18. Planning the Use of Land; and 19. Future Control of Land Use.

(52) LAND ECONOMICS by Richard T. Ely and George S. Wehrwein; published by The Macmillan Company, New York, N. Y., 1940.—512 pages.

Includes a consideration of: 1. Land and Population; 2. Land as Nature; 3. Land as Space; 4. Land as Property; 5. The Economics of Land Utilization; 6. Agricultural Land; 7. Agricultural Land Tenure and Soil Conservation; 8. The Utilization of the Arid Lands; 9. Forest Land; 10. The Environment and Recreational Land; 11. Water Resources; 12. Mineral and Power Resources; 13. Urbanization and Urban Land; 14. Conservation and Social Control over Land: A Summary; and 15. Bibliography.

(53) "LAND FOR HOUSING"—Chapter 1 (pages 13-37) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. THE AVAILABILITY OF LAND; a. Urban Lot Vacancy; b. Decline of Central Cities; 2. BARRIERS TO THE USE OF SURPLUS LAND; a. Effect of Location on the Availability of Land; b. Effects of Tax Delinquency on the Availability of Land; c. Legal and Financial Barriers to Utilization of Land; 3. THE COST OF LAND; a. Prospects for Land Prices; b. Cost of Land in Relation to Total Property Costs; c. Raw Land and Improvement Costs; 4. TRENDS IN LAND UTILIZATION; a. Decline in Density and Price; b. Protecting Neighborhood Values; c. Growth of Public Control of Land Subdivision; d. The Movement to New Land; 5. SUMMARY.

(54) A CRITICAL REVIEW OF RESEARCH IN LAND ECONOMICS by Leonard A. Salter, Jr.; published by The University of Minnesota Press, Minneapolis, Minn., 1948.—258 pages.

Includes a consideration of: 1. Introduction; 2. The Development of Rural Land Economics in the United States; 3. Scientific Method and Social Science; 4. On the Use of Publications as Methodological Evidence; 5. Land Utilization Research in the Cut-Overs; 6. Land Utilization Research in Other Areas; 7. Research in Landed Property; 8. Changes in Emphasis; and 9. Conclusions.

(55) "DEFICIENCIES OF THE LAND SYSTEM" (Conclusions concerning)—Section 1 (c) of Chapter 12: Conclusions and Recommendations of the Housing Committee, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

(56) "LAND PROBLEMS AND HOUSING DISTRIBUTION"—Section 2 of Chapter 11: Removing the Obstacles, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

This section considers: a. Difficulties in Obtaining Land for Low-Priced Dwellings; b. Protection of Housing Values; and c. Reutilization of Land.

(57) "VALUE CHARACTERISTICS OF LAND AND BUILDINGS"—Chapter 4 (pages 56-81) of PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weimer and Homer Hoyt; (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: $5.00

The "Land" section of this chapter considers: 1. Physical versus Value Characteristics; 2. Land; 3. Location; 4. Size and Shape of the Lot; 5. Topography; 6. Condition of the Soil and Subsoil; 7. Accessibility and Availability of Utilities and Conveniences; and 8. Surveys. [Balance of chapter relates to buildings on the land.]

(58) "BASIC STUDIES FOR PLANNING"—Chapter 4 (pages 59-89 of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: $7.50

This chapter considers: 1. Principal Elements of Planning Survey; 2. Population Studies; 3. The Economic Base of the Community; 4. Land Use Maps and Surveys; and 5. Other Basic Studies.

(b) Land Development and Subdivision

(71) "LAND AND ITS DEVELOPMENT"—Chapter IV (pages 59-77) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

This chapter considers: 1. Summary Statement of Land Supply; 2. Limitation of Land Supply; 3. Highest and Best Use; 4. Alternatives of Use; 5. Centralization and Decentralization; 6. Effects of Decentralization—Business Properties; 7. Decentralization—Residential Areas; 8. Causes of Decentralization; 9. The Incentive Underlying Land Development; 10. The New Subdivision; 11. Large-Scale and Small-Scale Operation; 12. Speculative Fervor; 13. Nature of Recent Price Increases; 14. Earlier Speculation; 15. The Boom in Southern California; 16. The Florida Boom; 17. Appraisal of Booms; 18. Land and the Specific Project; 19. Obtaining and Preparing Land for Building; 20. Cost Analysis; and 21. Land and the Cost of the Entire Property.

(72) "LAND SUBDIVISION"—Chapter 1 (pages 209-219) of Section Five: Land Development and Home Building, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. F.H.A. Land Planning Division Standards; 2. Demand; 3. Community Amenities; 4. Design; 5. Protection; and 6. Recording.
This chapter was prepared by Mr. Gabriel C. Harmon, land planning consultant.

(73) REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; New York, Prentice-Hall, Inc., 1949.—394 pages; price: $5.75

Includes chapters on: 1. Subdividing in a Changing World; 2. Birth of a Business; 3. Intensive Use of Land; 4. Social Control of Land; 5. Taking advantage of City and Regional Plans; 6. Scientifically Planned Communities; 7. Community Development Problems and Principles; 8. Surveying the Market; 9. Check List for Major Development; 10. Testing for Public Approval; 11. How to Appraise Acreage for Subdivisions; 12. Financing Problems; 13. Selecting Property to be Subdivided; 14. Signposts of Progress in Subdividing; 15. Adequate Subdivision Design; 16. Problems of the Small Subdivider; 17. F.H.A. Subdivision Requirements; 18. Preparing Property for the Market; 19. Parks and Playgrounds—Cooperating with Nature; 20. Restrictions in Subdivisions; 21. Restrictions—Practical and Legal Aspects; 22. Racial Restrictions; 23. Architectural Control of New Buildings; 24. Subdividing for the Motor Age; 25. Streets, Lots, and Landscaping; 26. Business Centers in Subdivisions; 27. Developing Resort Properties; 28. Subdividing the Air; 29. Contracts and Deeds; 30. Office Records and Installment Payment Policies; 31. Publicity and Advertising; 32. Selling Techniques; and 33. Developing for 100 Years. The work also includes 13 Appendices, such as a list of 750 subdivision names; rules for construing legal description; a table showing, for lots of various sizes, the number of lots per acre; etc.

(74) THE COMMUNITY BUILDERS HANDBOOK—Prepared by the Community Builders' Council of the Urban Land Institute; J. C. Nichols Memorial Edition, 1950 (First Printing, 1947; First Revised Printing, 1948); published by Urban Land Institute, 1737 K Street, N. W., Washington 6, D. C., 1950. —213 pages; price: $12.00

The several Parts and Sections of this work cover the following points: PART I: PRELIMINARY STEPS IN COMMUNITY DEVELOPMENT; a. Market Analysis; b. Technical Planning Service; and c. Selection of Subdivision Site; PART II: PLANNING THE DEVELOPMENT; a. Site Information for Planning; b. Planning the Site; c. Street and Utility Construction; and d. House Planning for Operative Builders; PART III: PROTECTING THE FUTURE OF THE DEVELOPMENT; a. Protective Covenants; b. Maintenance and Homes Associations; c. Maintenance in Apartment Development; and d. Selling the Project; PART IV: PLANNING AND MANAGEMENT OF SHOPPING CENTERS; a. Size and Location; b. Site Planning for Shopping Centers; c. Architectural and Structural Design of Shopping Centers; d. Management and Maintenance; and e. Concluding Statement.
The work also includes nine Appendices (A through I) giving sample covenant forms, etc., 21 illustrations, 32 figures and 6 tables (for example, Relation between cost of lot and house; Estimated Effect of Airport on Land Values, etc.).

(75) HOME BUILDERS MANUAL FOR LAND DEVELOPMENT—Revised edition (1953), prepared under the supervision of Albert Balch, Chairman, NAHB Land Planning Committee, and Leonard G. Haeger, Director, NAHB Research Institute; published by The National Association of Home Builders in the U. S., 1028 Connecticut Avenue N. W., Washington, D. C., 1953.—274 pages; price: $3.00

Includes chapters on: 1. Selecting Land Suitable for Subdivision; 2. Importance of Good Environment; 3. Planning and Zoning Regulations; 4. Cutting Land Development Costs; 5. Cost Effect of Improper Finish Grading; 6. Comparative Costs in Land Development; 7. Lower Improvement Costs Reduce Price of Homes; 8 Water Systems for Residential Communities; (a) Community Supply systems; (b) Individual supply systems; 9. Sanitary Sewerage Systems; (a) Municipal and community systems; (b) Individual facilities; 10. Trunk Line Utility Easements; 11. Road Design and Construction; 12. Design and Use of Culs-de-Sac; 13. Road and Pavement Types; 14. Appraisal of Residential Street Widths; 15. Improved Pavement at Lower Cost; 16. Mistakes to Avoid in Lot and Street Grading; 17. Advantages of Careful Lot Planning; 18. Location and Grouping of Small Homes; 19. Effect of Ranch Type House on Lot Planning; 20. Making the Most of Thoroughfare Frontage; 21. Handling Streams and Water Frontage; 22. Site Planning for Small Apartments; 23. Parking Facilities for Garden Apartments; 24. The Small Shopping Center; 25. The Neighborhood Shopping Center; 26. Parking for the Small Shopping Center; 27. Proper Church and School Location; 28. Community Recreational Facilities; 29. Tips on Landscaping; 30. Revamping Old Subdivisions; 31. Special Site Planning for Prefabricated Homes; 32. Hillside Development of Single Family Homes; 33. Marinas, A Potential Asset to Home Development; 34. Airports and Their Effect on Adjacent Residential Areas; 35. Homes Associations; 36. Protective Covenants; 37. Conserving Materials in Land Development; 38. Overall Conservation Through Careful Planning; 39. Adjusting Lot Widths to the House; 40. Waste Resulting from Excessive Street and Utility Requirements; 41. Subdivision Regulations in Periods of National Emergency; 42. Selected References.
ABSTRACT: The Land Planning Service Bulletin was inaugurated as a regular NAHB service to members by the NAHB Land Planning Committee in 1947, under the chairmanship of W. F. Atkinson. The Urban Land Institute, Technical Consultant to the Committee, was delegated to prepare these bulletins, which also have appeared as feature articles in the NAHB *Correlator*. In the process, a wealth of valuable information on neighborhood development has been collected, with subject matter ranging from site selection to protective covenants and the marketing of old subdivisions. In 1949, the Urban Land Institute was requested by the Committee, under the Chairmanship of David D. Bohannon, to organize and edit the bulletins and articles into one volume as a manual for land development. The resulting publication, the 158-page "Home Builders Manual for Land Development," was issued early in 1950 by NAHB. In 1952, the Committee voted to begin the work of issuing a revised edition, which would incorporate some of the original text, brought up to date, with the new material developed during the intervening years. This revised edition, based on current, up-to-date facts and figures, is designed to act as a guide in the solution of a wide range of land planning problems.

(76) "THE STREET SYSTEM—Chapter 5 (pages 90-119 of LOCAL PLANNING ADMINISTRATION; Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 E. 60th Street, Chicago Illinois, 1948.—337 pages; price: $7.50

This chapter considers: 1. Character and Costs of Street Traffic Congestion; 2. Traffic Engineering; 3. Street Systems; 4. Special Aspects of Street Planning; 5. Automobile Parking Facilities; 6. Preparation of the Major Street Plan; and 7. Adoption of the Major Street Plan.

(77) BUILDING TRAFFIC SAFETY INTO RESIDENTIAL DEVELOPMENTS by the Committee on Traffic Features for Residential Developments (Burton W. Marsh, Chairman); published by National Committee for Traffic Safety, 20 North Wacker Drive, Chicago 6, Illinois, with the Cooperation of American Automobile Association, American Municipal Association, American National Red Cross, Association of Casualty & Safety Companies, Automotive Safety Foundation, National Association of Home Builders, National Safety Council, and Urban Land Institute; 1954.—40 pages; price: $1.00

Includes a consideration of: 1. Location and Design of Development; 2. Design of Local Residential Streets; 3. Design of Feeder Streets; 4. Intersection Design; 5. Sidewalks; 6. Parking in Residential Areas; 7. Alleys; 8. Street Lighting; 9. Curb Cuts for Driveways; 10. Street Name Signs; 11. Shopping Centers; 12. Public Utilities; 13. Parks and Play Areas; 14. Committee List; and 15. Acknowledgments.

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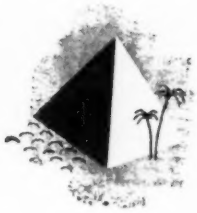

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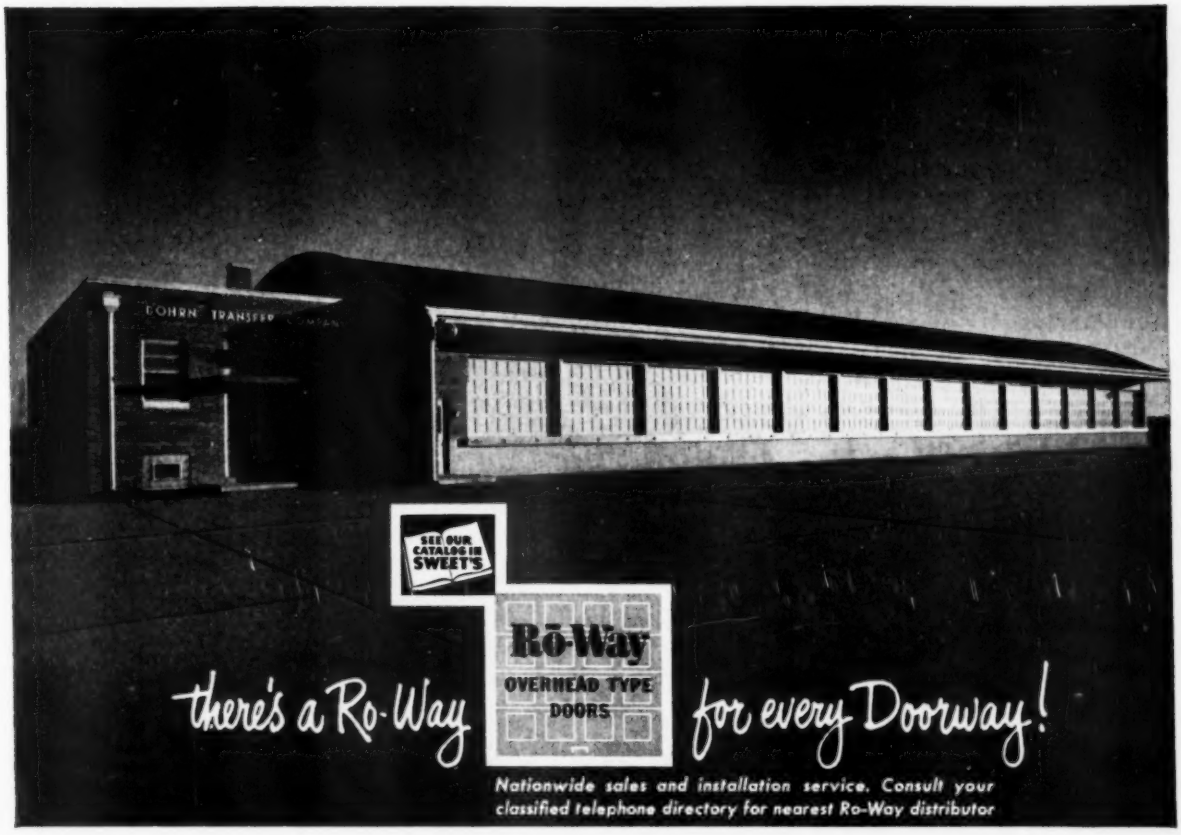

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(78) "PUBLIC UTILITIES AND RELATED SERVICE FACILITIES" —Chapter 6 (pages 120-131) of LOCAL PLANNING ADMINISTRATION; Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: $7.50

Includes a consideration of: 1. Water Supply Systems; 2. Sewerage Systems; 3. Gas Systems; 4. Central Steam Heating Systems; 5. Utilities Using Wires; 6. Location of Utility Lines; and 7. Related Service Facilities for Collection and Disposal of Wastes other than Sewerage

(79) "RECREATION AND PUBLIC OPEN SPACES"—Chapter 8 (pages 162-178) of LOCAL PLANNING ADMINISTRATION Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948. —337 pages; price: $7.50

Includes a consideration of: 1. The Nature and Purpose of Recreation; 2. Responsibility of the Community for the Provision of Recreation Opportunities; 3. Recreation Program Agencies; 4. Relationship of Recreation and City Planning Functions; 5. Planning a Comprehensive System of Public Open Spaces for Recreation; 6. Methods of Acquiring Recreation Areas; and 7. Financing the Acquisition, Development, and Operation of Recreation Areas.

(80a) PREMATURE SUBDIVISION AND ITS CONSEQUENCES; A Study made for the State Planning Council of New York of the premature subdivision for urban purposes of outlying lands in selected metropolitan areas of New York by Philip H. Cornick; published by Institute of Public Adminstration, Columbia University, New York, N. Y., 1938.—346 pages (Authorized reprint of the official report.); price: $1.50

Includes a consideration of: 1. Early Subdivision Booms and Their Consequences; 2. The Extent of Premature Subdivision; 3. Premature Subdivision and Arrears of Taxes; 4. Premature Subdivision and Cost of Government; 5. Premature Subdivision and Land Use; 6. Premature Subdivision with Respect to Location; 7. Subdivision Control under the Police Power; 8. Subdivision Control Through Limitations on Grants of Power; and 9. Cure and Prevention.

(80b) A REPORT TO THE STATE PLANNING COUNCIL OF NEW YORK ON THE PROBLEMS CREATED BY THE PREMATURE SUBDIVISION OF URBAN LANDS IN SELECTED METROPOLITAN DISTRICTS IN THE STATE OF NEW YORK by Philip H. Cornick; published by Division of State Planning, Albany, New York, 1938.—346 pages; price: not stated.

The text of the report is identical with that issued by Columbia University under the title PREMATURE SUBDIVISION AND ITS CONSEQUENCES.

(81) LAND SUBDIVIDING AND THE RATE OF UTILIZATION A STUDY OF THE RELATIONSHIP BETWEEN THE RATE AT WHICH URBAN SITES ARE CREATED AND THE RATE AT WHICH THEY ARE ABSORBED INTO USE WITH PARTICULAR REFERENCE TO THE GRAND RAPIDS METROPOLITAN REGION by Ernest M. Fisher and Raymond F. Smith; published by the University of Michigan, School of Business Administration, Bureau of Business Research, Ann Arbor, Michigan, 1932, as Volume IV, No. 5 of Michigan Business Studies.—80 pages; price: $1.00

Includes a consideration of: 1. Summary and Conclusions; 2. The Problem and its Significance; 3. Data and Sources of Data; 4. The Grand Rapids Metropolitan Region; 5. Location of Subdividing Activities; 6. Location of Building Activities; 7. The Role of Different Use Types; 8. Population Growth, Subdividing, and Lot Utilization; 9. Subdividing and Utilization in Various Areas; 10. Investment Represented by Unutilized Lots and Improvements; and 11. Appendix—Tables Supporting Charts Presented in Study.

(c) Neighborhood Planning

(91) NEIGHBORHOOD STANDARDS—A Series, known as Land Planning Bulletin No. 3; published by the Federal Housing Administration state offices at various dates.

Builders interested in consulting the edition of this land planning bulletin which is applicable to the geographical area in which they operate should communicate with the nearest F.H.A. office.

(92) STANDARDS FOR HEALTHFUL HOUSING: PLANNING THE NEIGHBORHOOD by The American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1948.—90 pages; price: not shown. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

Includes a consideration of: 1. Basic Requirements for Site Selection; (a) The neighborhood as a basis for environmental standards; (b) The controlling importance of site selection; (c) Essential physical characteristics of the site; (d) Availability of sanitary and protective services; (e) Freedom from local hazards and nuisances; (f) Access to community facilities outside the neighborhood; (g) Essential city and district facilities; 2. Development of Land, Utilities and Services; (a) General considerations; (b) Grading and surface drainage (c) Water supply; (d) Sewage disposal; (e) Removal of refuse; (f) Power, fuel and communications; (g) Planting and landscape design; 3. Planning for Residential Facilities; (a) General considerations; (b) Criteria for selection of dwelling types; (c) Site design requirements; (d) Density of residential development; 4. Provision of Neighborhood Community Facilities; (a) Factors of need, selection and accessibility; (b) Education; (c) Outdoor recreation; (d) Indoor social and cultural facilities; (e) Neighborhood shopping; (f) Health service facilities; (g) Neighborhood community facilities as a whole; 5. Layout for Vehicular and Pedestrian Circulation; (a) The functions of circulation; (b) Organization of the circulation system; (c) Design of streets; (d) Design of walks; (e) Design of parking spaces and driveways; (f) Circulation lighting; 6. Neighborhood Density; Coordination of Housing Elements; (a) Protection of livability through neighborhood density control; (b) Determination of neighborhood density limits; (c) Implications of neighborhood sites; (f) Problems of ob- Densities for neighborhood of diversified dwelling types; (e) Range of neighborhood sites; (f) Problems of obtaining desirable neighborhood densities; (g) Relation of neighborhood to the district and city; (h) The planned location of neighborhood elements; 7. Appendices; (a) Glossary; (b) Potential sources of nuisances and hazards; (c) Organizations and facilities which may supply neighborhood services; (d) Bibliography. NOTE: The work also contains the following Tables: 1. Assumed family size and age distribution: Selected data; 2. Access standards for community facilities outside the neighborhood; 3. Allocation of net residential

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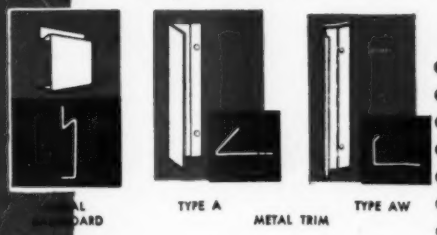

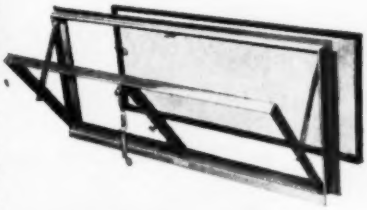

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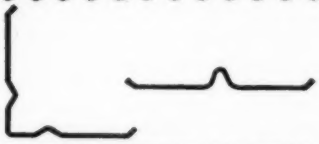

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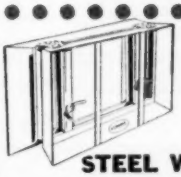

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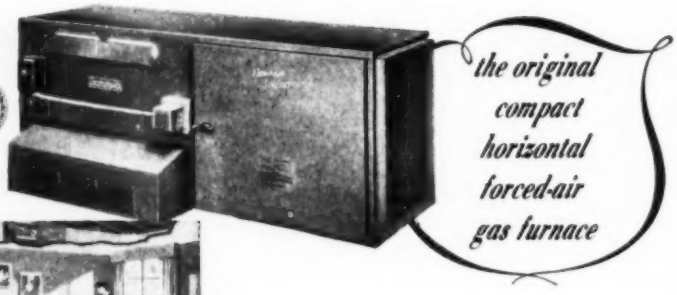

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land to major dwelling uses; 4. Net dwelling densities and building coverage; 5. Access standards for community facilities within the neighborhood; 6. Elementary school capacity related to neighborhood population; 7. Elementary school site size; 8. Neighborhood playground size; 9. Neighborhood park size; 10. Neighborhood shopping center size; 11. Land area of all neighborhood community facilities; 12. Land area per family for a neighborhood of 5,000 persons (1,375 families); 13. Land area per family for neighborhoods of various sizes; 14. Neighborhood density: families per acre; 15. Neighborhood density: persons per acre; 16. Land area and density for a neighborhood of 5,000 persons (1,375 families) with diversified dwelling types; 17. Neighborhood area derived from neighborhood density allowances; 18. Neighborhood size and density related to school service area.

ABSTRACT: This volume is the first in a series of three monographs. The present report, on the standards for the environment of residential areas, deals with the physical setting in which houses should be located. An attempt is made to bring into focus the basic health criteria which should guide the planning of residential neighborhood environment. In the light of these criteria, the Committee offers recommendations for the selection of sites and for their development. This volume was prepared for the Committee on the Hygiene of Housing as a contribution of its Subcommittee on Environmental Standards. The members of this subcommittee were: Frederick J. Adams, *Chairman*, Edwin S. Burdell, L. J. Carr, Earle S. Draper, Roland B. Greeley, Guy Greer, Frank W. Herring, John T. Howard, Lawrence M. Orton, M. Allen Pond, Robert C. Weinberg, and Edward Weinfeld. The report was prepared by Anatole A. Solow and Ann Copperman, and was edited by Allan A. Twichell. For the second and third reports in this series, see items (125) and (134) of this reading list.

(d) Trailer Court Development

(101) RECOMMENDED STANDARDS FOR TRAILER COURTS —Prepared by Division of Plans and Programs and Division of Housing Research, Housing and Home Finance Agency; published by Housing and Home Finance Agency, Washington, D. C., November 1952.—24 pages; price: 15c. Order copies from Superintendent of Documents U. S. Government Printing Office, Washington, D. C.

This booklet considers: I. FOREWORD (by Ralph R. Kaul); II. DEFINITIONS; III. SITE SELECTION; A. Location; B. Topography; C. Availability of Utilities; D. Necessary Land Area; IV. SITE IMPROVEMENTS; A-1 Site Planning; A-2. Trailer Coach Space Size; B. Spacing of Trailers; C. Roads, Walks and Parking Areas; 1. General Circulation; 2. Servicing; 3. Width of Roads and Parking Areas; 4. Parking Areas; 5. Walks; D. Service Buildings; 1. Location; 2. Construction; 3. Facilities; (a) Plumbing Fixtures; (b) Electrical; (c) Heating; (d) Hot Water; E. Laundry Drying Facilities; F. Refuse Collection; G. Recreational Areas; V. SITE ENGINEERING; A. Slopes of Trailer Spaces, Roads, Parking Areas, Walks and Service Areas; B. Construction of Roads, Parking Areas, Walks, and Service Areas; 1. Roads and Parking Areas; VI. SITE UTILITIES; A. Water Supply; 1. Source of Supply; 2. Quality and Quantity; B. Distribution System; C. Water Storage; D. Fire Protection; E. Drinking Fountains; F. Plumbing; G. Sanitary Sewers; 1. General; 2. Sewer Sizing; 3. Sewer Appurtenances; H. Sewage Disposal or Treatment; I. Storm Drains; J. Electricity; K. Fuel; and VII. OTHER FACILITIES.

ABSTRACT. This booklet was prepared in response to requests of the trailer court industry to establish sound standards for the construction of privately owned trailer courts. Its provisions, resulting from a review of all work done in this field, will enable private builders, as well as local public regulatory authorities, to become informed both in

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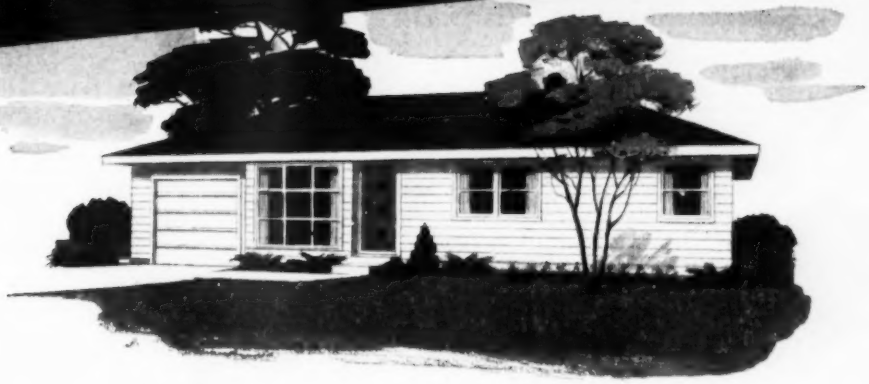
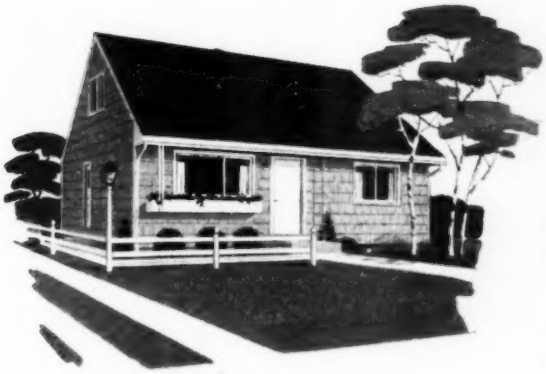
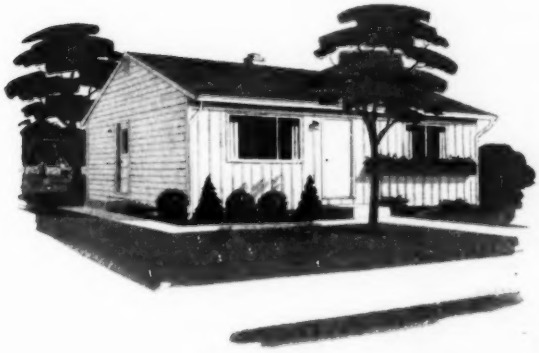




1½-story expandable homes



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the proper planning and construction of privately owned trailer courts and on the public health factors involved. The standards which have public health implications were prepared in collaboration with, and largely by, the Public Health Service, Federal Security Agency. These provisions undoubtedly will be revised from time to time to include the results of continuing experience by public health authorities. The recommendations in the booklet, however, will enable builders to familiarize themselves with public health factors involved in their operations. The over-all recommendations contained herein cover all phases of trailer court development, such as site selection, site planning, site engineering, utilities, and auxiliary buildings.

(e) Land Redevelopment

(111) THE FUTURE OF CITIES AND URBAN REDEVELOPMENT by Catherine Bauer, Henry S. Churchill, Frank Cliffe, Vernon De Mars, Richard Dewey, Arthur B. Gallion, Victor Jones, Holmes Perkins, William L. Slayton, Robert C. Weinberg, and Coleman Woodbury; edited by Coleman Woodbury; published by The University of Chicago Press, 1953.—764 pages; price: $9.00. Order copies from The University of Chicago Press, Chicago 37, Illinois.

Includes a consideration of: 1. Essays on Redevelopment Goals, Design, and Strategy; (a) Redevelopment, a misfit in the fifties (by Miss Bauer); (i) The current obstacle race; (ii) The inherent difficulty; (iii) Civic progress and "emergencies"; (iv) Slum clearance; (v) The failure to broaden the program; (vi) Some strange results; (vii) The challenge of present-day conditions; (b) The regional city (by Mr. Perkins); (i) Adaptability and variety; (ii) Balance in the urban region; (iii) New towns—groupings and families; (iv) The neighborhood; (v) Mixed development; (vi) Four criteria; (vii) Industries in urban patterns; (viii) A new attack on congestion; (ix) Size and spacing of new towns; (x) The regional center; (xi) In conclusion; (c) What kind of cities do we want? (by Mr. Churchill); (i) What is a city?; (ii) People are different; (iii) Planning is not statistics; (iv) Large-scale vs. human values; (d) Not by bread alone: An evaluation of the design element in large-scale planning (by Mr. Weinberg); (i) Introduction; (ii) The human being in the urban scene; (iii) Design must be intrinsic; (iv) Amenity reconciled with mass production; (v) Man, the measure; (vi) The art of townscape; (vii) British planners lead the way; (viii) Positive directives, not negative controls; (ix) Some missed opportunities; (x) Conclusion; (xi) Postscript; (e) Civic design and democracy (by Mr. Gallion); (i) The key is democratic action; (ii) The illusion of tradition; (iii) Look to the standards; (iv) The standards are deficient; (v) City building is a process; (vi) Contemporary aesthetics; (vii) There is no formula; (f) Townscape and the architect: Some problems of the urban scene (by Mr. De Mars); (i) New towns; (ii) The city center; (iii) The aesthetics of housing; (iv) Some recommendations; 2. Industrial Location and Urban Redevelopment (by Mr. Woodbury with the assistance of Mr. Cliffe); (a) Introduction—why study industrial location?; (i) Industries as redevelopers; (ii) Displaced industries; (iii) Industries as factors in urban patterns; (iv) Industrialization and population growth; (v) The economic bases of urban areas; (vi) Summary and warnings; (b) Location theory and practice; (i) Recent interest in the subjects; (ii) A good summary of the theory; (iii) Two other general studies; (iv) Industrial plant location in the South; (v) Location in the New England States; (vi) Some comments on the two investigations; (vii) Opinions from established plants; (viii) Industrial change in an old district; (ix) Two references; (c) Regional distributions and trends in industrial location; (i) Essential definitions; (ii) The data and their use; (iii) A few

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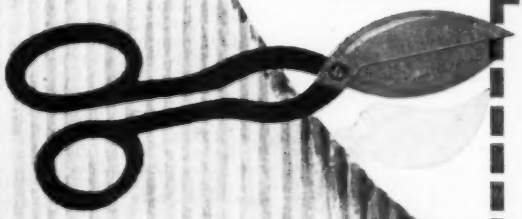

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comparisons and observations; (iv) War and postwar expansion; (v) Two other references; (vi) Basing-point pricing and industrial location; (vii) In conclusion; (d) Security considerations in industrial location; (i) Terms and approach; (ii) Action on many fronts; (iii) Expert and public discussion; (iv) The skies darken; (v) What this review shows; (vi) Why has dispersal been a stepchild?; (vii) Some studies and proposals; (viii) An early analysis; (ix) NSRB's first pamphlet; (x) Federal office buildings; (xi) Report to Joint Committee on the Economic Report; (xii) The Rains amendment; (xiii) The President's statement of policy; (xiv) In conclusion; (e) Are industries decentralizing? Some local inquiries; (i) Difficulties in earlier studies; (ii) Some definitions; (iii) Unit of measurement; (iv) Analyses and objectives; (v) Earlier studies; (vi) The regional survey of New York; (vii) Regional Plan Association follow-up; (viii) Chicago in the 1920's; (ix) Chicago—the late 1930's; (x) And in World War II and after; (xi) Two Detroit studies; (xii) Cincinnati as an example; (f) Are industries decentralizing? Nation-wide studies; (i) From 1899 to 1929; (ii) From 1899 to 1939; (iii) In metropolitan districts; (iv) An analysis for industrialists; (v) Partial summary; (vi) Planning URS' own work; (vii) The Creamer-Goodrich study; (viii) Creamer on types of changes; (ix) Creamer plus URS; (x) URS' reclassification of localities; (xi) What about the World War II record?; (xii) The TID-ENR (Territorial Information Department-Engineering News-Record) data; (xiii) The gist of the Creamer-URS (Urban Redevelopment Study) findings; (xiv) Summary and conclusions; 3. Urban Redevelopment and the Urbanite (by Mr. Slayton and Mr. Dewey); (a) Introduction—The basic approach to redevelopment; (i) Types of investigation needed; (ii) Information wanted; (iii) The sample survey; (iv) Universality; (b) Needs and desires of the urbanite; (i) Urban redevelopment and consumer attitudes; (ii) Man's needs; (A) Universal needs; (1) Physiological needs; (2) Socially acquired universal needs; (B) Cultural needs (iii) Summary; (iv) Specific areas of investigation; (A) Housing; (B) External space relations; (1) Distance to services; (2) The journey to work—its implications for urban development; (3) Distances to friends and associates; (4) Location with reference to the larger community; (iii) Summary; (c) Attitudes and the attitude survey; (i) Attitudes toward redevelopment; (ii) The sample survey; (A) The Milwaukee Survey; (B) Denver community survey; (iii) Summary; (iv) Interview schedule survey of the Milwaukee neighborhood; (d) Community organizations and redevelopment; (i) Usefulness to redevelopment; (ii) Experience with community organizations in redevelopment; (A) Philadelphia; (B) Chicago; (C) Cleveland; (iii) Conclusions; 4. Local Government Organization in Metropolitan Areas: Its Relation to Urban Redevelopment (by Victor Jones); (a) Metropolitan redevelopment; (b) The metropolitan community; (i) Dominant influence of metropolitan ways of life; (ii) Criticism of Metropolitanism; (iii) Redevelopment of the metropolis—a community-wide problem; (iv) Definition of the metropolitan community; (v) Population increase concentrated in metropolitan areas; (vi) Growth of surburbs faster than that of central cities; (vii) Distribution of population between central cities and suburbs; (viii) Immigration to, from, and within metropolitan areas; (ix) Daily movement of population; (x) Fragmented local government; (xi) Functional differences within metropolitan communities; (xii) Differences between central cities and suburbs; (xiii) Summary; (c) Metropolitan problems; (i) When is metropolitan government needed?; (ii) Blight found in suburbs as well as central cities; (iii) Dilapidated housing; (iv) Blighted undeveloped land; (v) The relocation problem; (vi) Few suburbs interested in urban redevelopment; (vii) Other metropolitan problems related to urban redevelopment; (viii) Unequal governmental services; (ix) Disparity between need and fiscal ability; (x) Tax rates increasing more rapidly in many suburbs than in central cities; (xi) Complicated local government makes d mocratic control difficult; (xii) Summary; (d) Attempts to meet the problems; (i) Basic political principles of local government organization; (ii) Classification of proposed and attempted solutions; (iii) Devices involving limited structural changes; (iv) Devices requiring fundamental structural changes; (e) Annexation; (i) Importance of annexation during nineteenth century; (ii) Few significant annexations after 1890; (iii) Increase of annexations since World War II; (iv) Limited utility of annexation to provide metropolitan government; (v) Incorporated suburbs unlikely to be annexed; (vi) Cumbersome annexation procedures required by statutes; (vii) Annexation by ordinance or charter amendment in Texas and Missouri home-rule cities; (viii) Judicial determination of annexation questions in Virginia; (ix) Judicial determination of annexation questions in other States; (x) Questions of values and interests mixed with questions of fact; (xi) Advantage of an administrative agency to determine annexation questions; (xii) Conclusions; (f) Special districts and authorities; (i) Number of special districts in metropolitan areas; (ii) Need for larger areas of policy formation and administration; (iii) Pressure for functional autonomy; (iv) Can government be taken out of politics?; (v) Are special districts developing into general metropolitan governments?; (vi) The Port of New York Authority as a prototype of metropolitan government; (g) Federated forms of metropolitan government; (i) The borough plan of metropolitan government; (ii) Multipurpose district as a "Federal" type of metropolitan government; (iii) The county as the central unit of metropolitan government; (iv) Reorganization of urban county government; (v) Confusion of substantive and procedural powers; (vi) Representative and responsible county legislative body; (vii) A single-headed county executive; (viii) Summary; (h) Urban redevelopment and the government of metropolitan areas; 5. The Background and Prospects of Urban Redevelopment in the United States (by Mr. Woodbury); (a) Introduction; (b) On the nature of cities; (c) Cities at the beginning of the (twentieth) century; (d) The past half-century; (e) Trends and problems; (i) Metropolitanism; (ii) Political problems of social heterogeneity; (iii) Urban planning; (A) The city beautiful; (B) The city economic or the city on wheels; (C) Zoning; (D) Debacle and disillusionment; (E) Reconstruction; (F) Metropolitan planning; (iv) Local government finance; (A) Local government revenues in the national economy; (B) Sources of revenue; (C) General character of local taxes; (D) Fiscal weakness of local government; (E) Local government debt; (F) Revenue reform and aid from other governments; (G) Two more problems; (vi) Organizations for the improvement of local government; (A) Civic reform groups; (B) Associations of cities; (C) Associations of local public officials; (D) Evaluation and suggestions; (vii) Representation and leadership in urban public affairs; (A) Urban representation in legislatures; (B) City-wide and neighborhood interests; (C) Non-voting; (D) Leadership and morale; (1) Approaches to an understanding of leadership; (2) What is leadership?; (3) Is present urban leadership adequate?; (4) What have we learned from recent studies?; (5) How do we proceed from here?; (6) Urban government and consensus; (7) Summary; (f) A note on psychosomatic urbanism; (g) In conclusion; and 6. Acknowledgments.

ABSTRACT. See abstract for item (112) of this reading list.

(112) URBAN REDEVELOPMENT; PROBLEMS AND PRACTICES by Charles S. Ascher, William H. Ludlow, Jack Meltzer, Sheilah Orloff, Ira S. Robbins, William L. Slayton, Allan A. Twichell, and Marian Perry Ankauer; edited by Coleman Woodbury; published by The University of Chicago Press, 1953.—525 pages; price: $7.50. Order copies from The University of Chicago Press, Chicago 37, Illinois.

Includes a consideration of: 1. Measuring the Quality of Housing in Planning for Urban Redevelopment; (a) Fundamentals in evaluating urban areas; (i) On the nature of urban redevelopment; (ii) Surveys under the Housing Act of 1949; (iii) What is blight?; (iv) Housing standards: a cornerstone of policy; (b) Blighted area surveys and what they tell; (i) Factors that govern the value of surveys; (ii) Standard housing survey methods; (iii) Local housing survey methods; (iv) Land use maps and inventories; (v) Unsolved problems in measuring nonresidential blight; (vi) Dead and arrested subdivisions; (c) Screening

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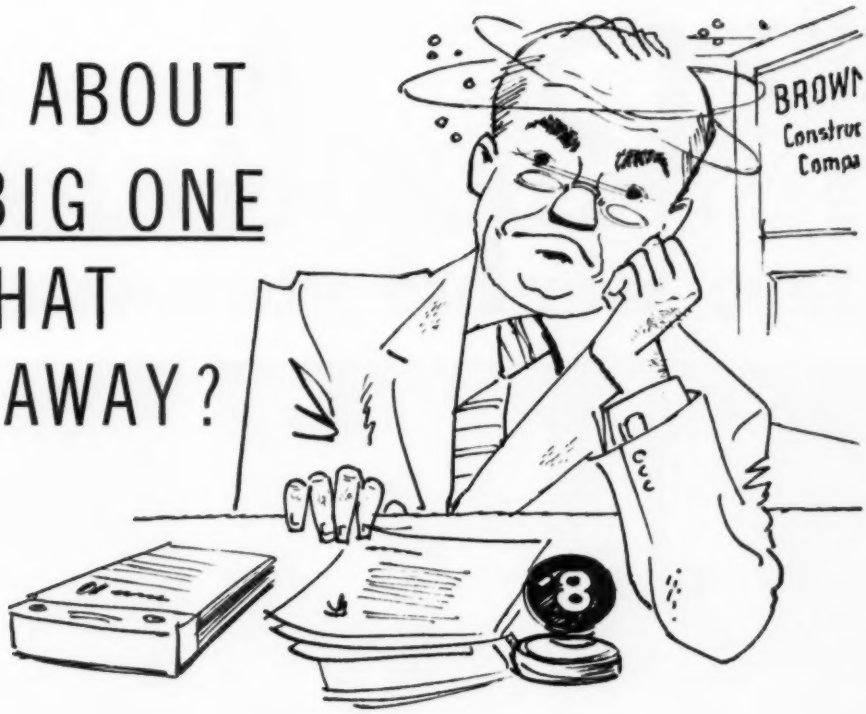

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surveys for broad policy; (i) The role of screening studies; (ii) Housing census data; (iii) Composite indices of blight; (iv) An APHA screening study—plus; (d) Intensive studies to guide specific action; (i) Information needed for coordinated programs; (ii) The housing census and census-type surveys; (iii) Designation of slum clearance and conservation areas; (iv) Housing based on family needs; (v) Strengthening housing standards; (e) Toward effective surveys; (i) Broad sponsorship as a source of strength; (ii) Some common operating problems and pitfalls; (iii) Taking the community into partnership; (iv) Can the APHA method be condensed?; 2. Urban Densities and Their Costs; An Exploration into the Economics of Population Densities and Urban Patterns; (a) Introduction; (i) Types of densities; (ii) Criteria for determining density and patterns of urban development; (iii) The approach of the monograph; (b) Efficiencies of residential buildings at various densities; (i) Existing and recommended lot densities; (ii) Determination of housing costs; (iii) Land cost; (iv) Conclusion; (v) Tables and notes on the comparative costs of residential buildings of various types, densities, and construction standards; (c) Costs of public services in various urban patterns and densities; (i) Municipal costs as related to density; (ii) Methods of study; (iii) Density and design for a single residential area; (iv) Comparison of residential areas in different locations; (v) City-wide and metropolitan patterns of land use and density; (vi) Conclusions; (vii) Tables and notes on costs of public services in various urban patterns and densities; (d) Broader considerations in the efficiency of urban patterns and densities; (i) Combined residential and public service efficiencies; (ii) Other factors affecting urban efficiency; (iii) Efficiency of industry in various patterns and densities; (iv) Densities and locational pattern of nonindustrial employment; (v) Efficiency of urban transport; (vi) Integrated studies of urban efficiency; (vii) Costs and methods of proposed studies; (viii) Economic vs. social criteria; (ix) Conclusions; (x) Chart and notes on broader considerations in the efficiency of urban patterns and densities; (e) Density determinations for initial redevelopment projects; (i) Purpose of this chapter; (ii) Applying cost factors to decisions on density; (iii) Densities and blight; (iv) Redevolpment legislation and density standards; (v) Obstacles to rational determinations of densities; (vi) Criteria and techniques for establishing project densities; (vi) Costs of housing and public improvements at various densities; 3. Private Convenants in Urban Redevelopment; (a) Introduction; (i) The role of covenants in redevelopment; (ii) Recognition in the Housing Act of 1949; (iii) Recent concern with racial covenants; (iv) The broader use of covenants; (v) Why use covenants?; (vi) Types of redevelopment in which covenants can be useful; (b) The legal basis of covenants in community schemes; (i) Some cautionary examples; (ii) Underlying legal principles; (iii) Application of the principles to community schemes; (iv) Extinguishment of restrictions by public action; (v) Use of covenants by a public body not under a community scheme; (vi) Effect of statutory provisions; (vii) Conclusion; (c) Government by contract in Radburn, New Jersey; (i) The setting of the Radburn restrictions; (ii) The framework of the Radburn restrictions; (iii) Combination of municipal law and property law; (iv) Factors in Radburn's history affecting the community scheme; (v) Control of design and use; (vi) The Association and the municipality; (vii) Finance: the charge and its administration; (viii) Selection of trustees; (ix) extension, modification, Amendment; (x) Transfer by the Association of its rights and duties; (xi) Conclusion; 4. Urban Redevelopment Short of Clearance: Rehabilitation, Reconditioning, Conservation and Code Enforcement in Local Programs; (a) Balanced redevelopment; (i) Introduction; (ii) A comprehensive redevelopment program; (iii) Classification of areas; (iv) Regulatory tools; (v) The enforcement program; (vi) Area rehabilitation again; (b) Experience with police power regulation of housing in four cities; (i) The Baltimore Plan; (ii) Milwaukee; (iii) Kansas City; (iv) Chicago; (c) Rehabilitation and conservation-studies and a little experience; (i) Waverly; (ii) Woodlawn; (iii) Boston—Dwight-Hanson street area; (iv) Philadelphia—American friends; (d) Summary; (e) A note on tax delinquent land; (f) Bibliography; 5. Relocation of Families Displaced in Urban Redevelopment: Experience in Chicago; (a) Introduction; (b) The evolution of the problem; (i) The early 1930's; (ii) The passage of the Housing Act of 1937; (iii) The World War II experience; (iv) Private assumption of responsibility; (v) The task takes shape 1945-47; (vi) State legislation; (vii) Public and private cooperation; (viii) Chicago Housing Authority's Dearborn Homes; (ix) West Side projects compound problem; (x) Relocation housing; (xi) NYLIC (New York Life Insurance Company) project; (xii) Relocation begins; (xiii) Priority system established; (xiv) Public housing and slum clearance; (xv) Other projects; (c) The operation; (i) Administrative organization for Chicago's relocation activities; (ii) Public agencies; (iii) Private agencies; (iv) General relocation policies; (v) The relocation process; (d) Federal policy; (i) Relocation plan; (ii) Rehousing requirements and assistance; (iii) Methods for coordination (iv) Summary; (e) Conclusions and comments; (i) Historical; (ii) Administration; (iii) Some problems ahead; (iv) Some basic implications of relocation; (f) Bibliography; 6. Eminent Domain in Acquiring Subdivision and Open Land in Redevelopment Programs: A Question of Public Use; (a) Memorandum of law; (i) Statement of the problem; (ii) Proposition; (iii) Summary of argument; (iv) Point I: States and their subdivisions may take private land to provide for public welfare and to secure public benefit; (A) Use by the public is a restraint on private donees of eminent domain, and not on States and their subdivisions; (B) Government and its subdivisions may take land for the purpose of improving living conditions and eliminating blight; (v) Point II: Doctrine of public benefit is firmly established in the Federal courts; (vi) Conclusion; (b) Social and economic material; (i) Introduction; (ii) Point III: Social and economic evils flow from premature land subdivision, and from the lack of planned development of vacant land; (A) The condemnation of such land and its resale for private or public development in accordance with a plan for sound community growth is reasonably related to the public welfare; (B) Land use and problems of urban planning and growth; (C) Condemnation of open and predominantly open land needed for sound community growth would confer a substantial public benefit; 7. Acknowledgments. NOTE: The authors of the individual "parts" of this work are as follows: Part 1: Mr. Twichell; Part 2: Mr. Ludlow; Part 3: Mr. Ascher; Part 4: Mr. Slayton; Part 5: Mr. Meltzer and Miss Orloff; and Part 6: Mr. Robbins and Miss Yankauer.

ABSTRACT. This volume is a product of the Urban Redevelopment Study (1948-1951), made possible by a grant of $100,000 authorized in June 1948 by The Spelman Fund of New York, to Public Administration Clearing House as trustee. The study was conducted under the supervision of the Director of the Public Administration Clearing House, the Executive Director of the American Society of Planning Officials and the National Association of Housing Officials and two associates. The Administrative Committee consisted of the following persons: Herbert Emmerich, Chairman (PACH); Charles B. Bennett, Director of Planning, City Planning Department, Los Angeles, California; Walter H. Blucher (ASPO); Robert D. Sipprell and John M. Ducey (NAHO); Ernest J. Bohn, Director, Cleveland Metropolitan Housing Authority, and Chairman, City Planning Commission, Cleveland; and Coleman Woodbury.

PART III

PLANNING and DESIGN

(a) Structural Design

(121) STRENGTH OF HOUSES; APPLICATION OF ENGINEERING PRINCIPLES TO STRUCTURAL DESIGN by Herbert L. Whittemore, John B. Cotter, Ambrose H. Stang, and Vincent B. Phelan.

Building Materials and Structures Report BMS 109; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 1, 1948.—132 pages; price: $1.50. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

The items considered (with the finer sub-sections omitted) include: 1. Introduction; 2. Outline of Method for Determining Strength of Houses; (a) Load; (b) Design load; (c) Racking load; (d) Allowable load; 3. Dead Load; 4. Floor Load; 5. Wind Load; (a) General; (b) Velocity pressure; (c) Relation between velocity pressure and wind load; (d) Discussion; (e) Precise wind load; (f) Approximate wind load; (g) Comparison with authorities; (h) Combined and design wind load; 6. Snow Load; (a) Basic snow load; (b) Comparison with authorities; (c) Snow load on sloping roof; 7. Water Load; 8. Assumptions; 9. Conventions; (a) Definitions; (b) General; (c) Elements; 10. Reactions on Elements of House; 11. Roof; (a) Sloping roof with no horizontal reaction from gable; (b) Sloping roof with horizontal reactions from gable; (c) Projecting roof; 12. Hip and Valley Rafters; (a) Auxiliary roof members; (b) House with hip roof; (c) Loads on south roof; (d) Loads on hip roof; (e) Reactions on hip roof; (f) Loads on wall; (g) Loads on hip rafter; (h) Loads on fastenings; (i) Combined loads on hip rafter; (j) Total loads on hip rafter; 13. Walls; (a) Design loads; (b) Walls which have no openings; (c) Walls which have openings; 14. Partitions; (a) Load-bearing partitions; (b) Nonload-bearing partitions; 15. Floors; (a) Design load; (b) No partition above floor; (c) Partition above floor; (d) Floor with opening; (e) Floor with stair opening; 16. Weights of House Constructions; (a) Description of constructions; (b) Weight; (c) Walls; (i) Wood; (ii) Steel; (iii) Masonry; (d) Load-bearing partitions; (e) Nonload-bearing partitions; (i) Wood; (ii) Steel; (f) Floors; (i) Wood; (ii) Steel; (iii) Masonry; (g) Roofs; (i) Wood; (ii) Steel; 17. Variations in Strength of House Constructions; (a) General; (b) Comparison of Variations in Strength; (c) Relation of Materials to variations; (d) Relation of Workmanship to variations; 18. Allowable Loads on House Constructions; (a) General; (i) New materials; (ii) Fastenings; (iii) Unusual structural members; (iv) Stressed-skin constructions; (b) Efficient use of material; (c) Criteria for allowable loads; (d) Loads; (e) Distribution of criteria; (f) Cracks in plaster; (g) Graphs of allowable loads; (h) Relation of materials and design to allowable load; (i) Walls; (ii) Load-bearing partitions; (iii) Nonload-bearing partitions; (iv) Floors; v) Roofs; (i) Relation of materials and design to allowable load-weight ratio; (i) Walls; (ii) Load-bearing partitions; (iii) Nonload-bearing partitions; (iv) Floors; (v) Roofs; (j) Allowable loads for constructions not having standard height or span; (i) Compressive load; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (v) Racking load; 19. Comparison of Allowable Loads with Design Loads for Typical Houses; (a) Objective; (b) Typical houses; (i) Constructions; (ii) Locations; (c) Utility factor; (d) Direction for design loads and fastenings; (e) Relation of allowable transverse load to span; (f) Roof; (i) Strength; (ii) Roof fastenings; (iii) Utility factor for all

roofs; (g) Gables; (i) Strength; (ii) Fastenings; (h) Attic floor; (i) House 22-D, one story (j) House E, second story; (k) House E, first story; 20. Conclusions; (a) Wind map; (b) Velocity pressure vs. wind load; (c) Snow map; (d) Engineering principles; (e) Design load; (f) Typical design load; (g) Fastenings; (h) Tests for strength; (i) Allowable load; (j) New approach to house design; and 21. Selected References.

ABSTRACT. Strength of houses in the past has been made adequate by patterning them after those which have withstood the test of service conditions. Architects and builders of small structures have followed closely traditional methods handed down from the craftsmen of medieval England. From these traditions, cities have crystallized building codes now enforced under the police power of the community. The trend for the immediate future seems to indicate houses so constructed as to contribute in greater measure to the welfare of the occupants by bringing more of the out-of-doors into the house. Wider windows to give more sunlight and allow stimulating vistas of garden, trees, and flowing water; larger rooms and movable partitions; and walls, floors, and roofs fabricated from plastics and from aluminum and magnesium alloys are some of the improvements anticipated. Library research failed to disclose rational methods for determining the strength of present-day houses and little in that respect that could be applied to house design for the future. This report is an attempt to apply engineering methods to the design of houses for strength. Fundamental data for wind, snow, and floor loads have been reviewed and convenient methods developed for computing applied loads. The engineering approach to strength of houses described in this report, it is thought, will open the way for designers to introduce unconventional materials and unusual methods of fabrication by determining in the laboratory whether constructions have the necessary strengths, thus greatly shortening the time required to develop and obtain acceptance of new constructions for houses. Some approach along rational lines is necessary if houses are to benefit from the fund of technical information now available on materials and methods of manufacture being utilized for other commodities. It is time that the strength of houses be given careful engineering scrutiny—not because houses need be stronger, for few fail—but to judge how much material is superfluous. Material is costly as is the labor required to shape and fit it into place. Hence this report describes and illustrates methods for designing small houses to have adequate strength without waste of material. For each element of a house, compressive, transverse, and racking loads were computed by the accepted principles of mechanics for typical one- and two-story frame houses in several locations representative of extreme wind and snow loads in the United States. Allowable loads for the 100 wall, partition, floor, and roof constructions included in the "structural properties" Building Materials and Structures Reports are compared with design loads for two houses in three locations. The comparison shows that some had insufficient strength, while others were much stronger than is necessary. The application of engineering principles to the design of houses presents a complete and logical method for determining allowable loads for walls, floors, and roofs, and makes it practicable to develop house constructions that have sufficient strength and require the least amount of material.

(122) "DESIGN FOR LIVABILITY" by Bernard Wagner. In (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 1-10; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 20¢. This article *alone* is available for 15¢ as HHFA Technical Reprint No. 12. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Orientation—Which Way?; 3. Four Orientation Conditions; (a) Plan A: Street extends East-West; approach to lot and house from the South; (b) Plan B: Street extends East-West; approach to lot and house from the North; (c) Plan C: Street extends North-South; approach to lot and house from the East; (d) Plan D: Street extends North-South; approach to lot and house from the West; 4. Practical Application of Principles.

ABSTRACT: This article is illustrated with four figures, four plans, and a subdivision layout. The space diagrams shown (some of which appeared in HHFA Technical Bulletin No. 2, January 1948) present a method of graphically summarizing some of the more important problems which should be considered before starting to plan.

(123) PLANNING THE EXPANSIBLE HOUSE: 6 SCHEMES FOR HOUSES THAT GROW—Prepared by the staff of the National Housing Agency; published by the Housing and Home Finance Agency, Technical Office, Washington, D. Co., August 1947.—30 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Expansible House—The House That Grows With the Family; 2. The Expansible House Must Be Planned From the Beginning; 3. Squaring the Dream With the Realities; (a) The lot; (b) Community restrictions; (c) The expansible house may not be expanded; (d) Financing the expansible house; (e) The cost; 4. The Six Schemes; (a) Scheme 1. Planned for privacy on a narrow lot; (b) Scheme 2. A one-story house with principal rooms on the garden side; (c) Scheme 3. A house planned for sunshine, air and many views; (d) Scheme 4. This house divides as well as adds when more bedrooms and living amenities are required; (e) Scheme 5. A two-story "house that grows"; (f) Scheme 6. A more extensive use of the expansible house idea.

ABSTRACT. A planning guide for expansible houses presenting schematic plans which will provide all essential living facilities for a small family now, and that can be logically expanded as family needs grow. This guide was prepared in response to widespread interest among veterans for a guide of this sort. Houses that expand by completing an unfinished attic or by adding a bedroom are well known. Present-day building prices, however, have stimulated interest in applying the expansible idea to other kinds of houses. Planning a one-bedroom house that can be extended to meet the increasing needs of a family is an enterprise that requires forethought, the best possible assistance in design, consideration of the house's place in the community and the regulations that may apply to it, and a careful study of financing problems. This booklet aims to stimulate interest in the expansible house idea, and to give a general non-technical introduction to this aspect of home building.

(124) "GREATER LIVABILITY AT SMALL ADDITIONAL COST"—Author not named. In (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. This article *alone* is available for 15¢ as H.H.F.A. Technical Reprint No. 13. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of five different arrangement schemes, with a discussion of the advantages of the improved layout for each scheme.

ABSTRACT. The smaller differences in the costs of typical and improved designs compared with the differences in space are due to the fact that the changes in size do not require any more windows, doors, stairs, bath, kitchen, plumbing, heating and electrical equipment, nor any great increase in installation costs. Practically the only changes that occur are the added quantities of the framing and finish items. In order to demonstrate this and to compare the increases in cost with those in livability, comparative analyses have been made of five dwelling designs that are frequently used in various row, terrace or garden apartment developments.

(125) STANDARDS FOR HEALTHFUL HOUSING: PLANNING THE HOME FOR OCCUPANCY by the American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1950.—56 pages; price: $2.50. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

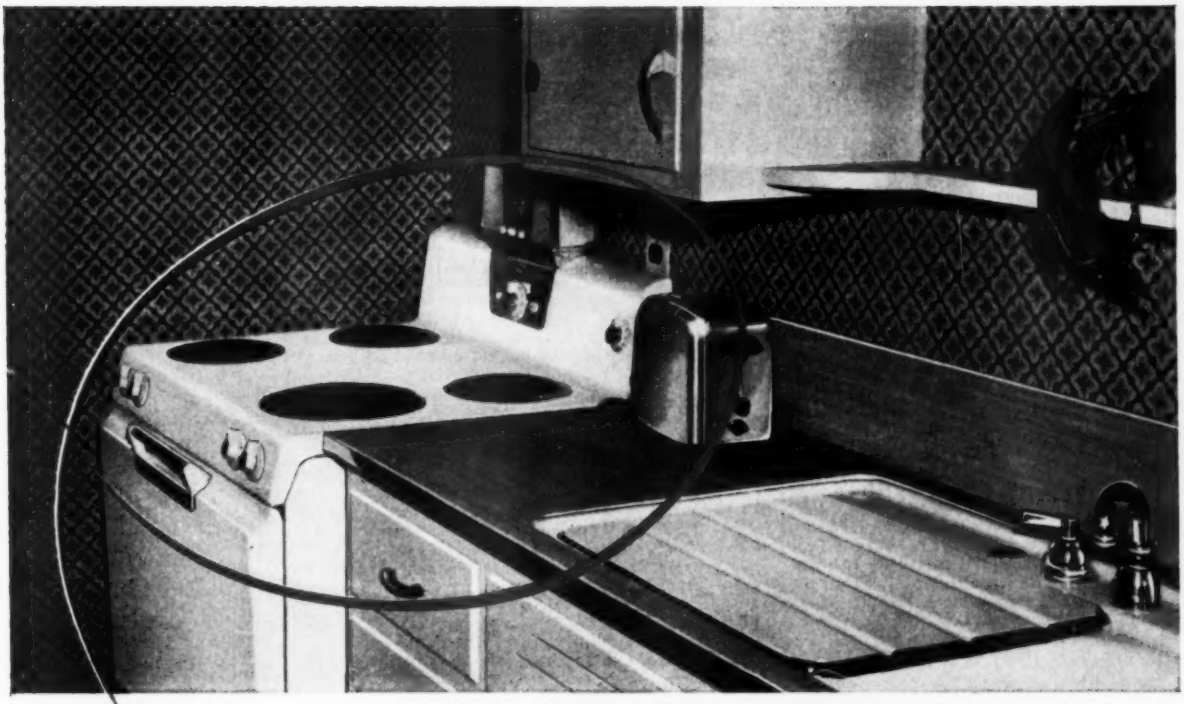
Includes a consideration of: 1. The Problems of Home Planning; (a) Health implications of adequate dwelling space; (b) Basis of dwelling space standards; (c) Applicability of standards; (d) Trends in population and family characteristics; (e) Changing pattern of living; (f) The need for flexibility; 2. Provision of Adequate Dwelling Space; (a) Adequacy of dwelling space; (b) A dwelling unit for each family; (c) Provision for household activities; (d) Provision for suitable conditions of temperature and light; (e) Provision for sanitation and health; (f) Provision for protection against accidents; (g) Provision for privacy and personal satisfaction; 3. Basic Functional Space Needs; (a) Space for Living; (b) The problems of storage; (c) Criteria of Adequacy; (d) Space for sleeping and dressing; (e) Space for personal cleanliness and sanitation; (f) Space for Food Preparation and Preservation; (g) Space for serving food and dining; (h) Space for family recreation and self-improvement; (i) Space for extra-familial association; (j) Space for housekeeping activities; (k) Space for infant care or care of the sick; (l) Space for circulation between various areas of the dwelling; (m) Space for operation of utilities; (n) Total space for the dwelling; 4. Development of Space Within the Dwelling; (a) Allotment of Functional Space to Specific Rooms; (b) Storage; (c) Ceiling heights; 5. Relationship of Rooms to Each Other and to the External Environment; (a) Interrelation of the various rooms of the dwelling; (b) Protection against noise and invasions of privacy; (c) Importance of natural illumination; (d) Importance of cross and through ventilation; (e) Provisions for egress; (f) Relations to the external environment; (g) Advantages and disadvantages of various dwelling types.

ABSTRACT. This, the second in the series of volumes on Standards for Healthful Housing, is a contribution of the Subcommittee on Occupancy Standards, of which Abner D. Silverman was Chairman. The other members of the Subcommittee were: Catherine Bauer, F. Stuart Chapin, Henry S. Churchill, R. L. Davison, Clarence W. Farrier, Blanche Halbert, Eugene Klaber, Catherine L. Oats, Svend Riemer, Mary Rokahr, Harold Sandbank, Clarence S. Stein. The report was prepared by C.-E. A. Winslow, Eleanor M. Watkins, and Carl W. Andersen, with the use of certain materials collected by Anatole A. Solow and Ann Copperman.

(126) SPACE AND EQUIPMENT FOR RENTAL HOUSING—Prepared and published by Federal Housing Administration, Washington, D. C., 1950.—40 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Kitchens; (a) Basic kitchen equipment; (b) Kitchen plans; (c) Comparative analysis of kitchen plans; 2. Dining Spaces; (a) Dining space plans; (b) Comparative analysis of dining space plans; 3. Bathrooms; (a) Dimensions of bathroom fixtures commonly used in rental housing; (b) Bathroom plans; (c) Faults in location of bathroom fixtures and accessories; (d) Comparative analysis of bathroom plans; (e) Bathroom considerations; (f) Miscellaneous; 4. Public Stairs; (a) Inside and outside main public stairs; (b) Double-run stairs; (c) Single-run stairs; (d) Service stairs; (e) Comparative analysis of public stairs; 5. Parking and Garages; (a) Street and compound parking; (b) Parking in basements; (i) Parking with columns; (ii) Parking without columns; 6. Small Urban Lots.

ABSTRACT. The object of this pamphlet is to aid the planner in obtaining the most efficient use of space and equipment in rental projects in order to assure maximum livability at minimum cost. The success of a project is dependent upon competent planning that



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will provide continuing tenant satisfaction, reduce obsolescence and keep maintenance and operating costs at a minimum. Permissible rent schedules will determine, to a large degree, the maximum amount that can be spent in developing a project, and the allowances that can be made for management and operation. The studies contained herein illustrate various arrangements of certain spaces and equipment usually considered necessary in family living. They are minimum for the most part and are acceptable for low-rent housing. They must not be considered standard, however, but should be expanded wherever necessary to meet the demands of the specific rental market for which a project is designed. In some instances more equipment is indicated than is required by FHA Minimum Property Requirements. This has been done to demonstrate how minimum spaces may be used to their fullest capacity. Minima should be used only in projects designed for low rents.

(127) "ECONOMIES OF ROW HOUSES FOR RENTAL PROPERTIES" by Bernard Wagner; in *Technical Bulletin No. 14*, pages 1-14; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research Agency, Washington, D. C.; price: 20¢. This paper *alone* is available for 15¢ as H.H.F.A. Technical Reprint No. 10. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Two-Story Row House; (a) Cost-Saving Methods; (b) Basic row-house types; (i) Private garden; (ii) Public access; (iii) The 20-foot row house; (iv) The 25-foot row house; (v) The 30-foot row house; (vi) Living habits; (vii) Plot plan; 2. The One-Story Row House.
ABSTRACT. This study presents a series of one- and two-story designs developed for economical site fabrication and prefabrication. Several combinations of readily available materials and construction methods are possible.

(128) ROOF GUTTERS (Construction Aid 2)—Prepared by the HHFA Division of Housing Research; published by the Housing and Home Finance Agency; Division of Housing Research, Washington, D. C., —June 1952.—11 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. A guide to the use of alternate materials to conserve critical metals and reduce costs in roof gutter construction. Several methods for handling roof drainage are shown.

(129) HOUSE AND SITE UNITED (Construction Aid 3)—Prepared by the HHFA Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.—June 1952.—27 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Topography; (a) Preserve the natural contours of the land; (b) Economical excavation; (c) Drainage pointers; 2. Put the Right House on the Lot; (a) Use a topographical survey and a site plan; (b) Should there be a basement?; (c) Select the right house type—it's generally more economical; (d) Dos and don'ts; 3. Orientation for Sun and Wind; (a) Cooperate with nature and benefit from it—Disregard it and suffer the consequences!; (b) Use these facts in orienting house and lot; 4. Use All of the Lot; (a) Divide the lot into three outdoor areas; (b) Wasted land is wasted money; (c) Overcome the sharp demarcation between indoors and outdoors; 5. Privacy for Eye and Ear; (a) Why is it needed?; (b) How do we get privacy?; 6. Outlook; (a) Capitalize on the good view—Screen out the bad; 7. Site Utilities (a) Some good practice tips; 8. Landscaping; (a) Save and use existing trees and large plants; (b) Topsoil is valuable—store it during construction; (c) Use a planting scheme and make it simple; 9. To Sum it Up.
ABSTRACT. A guide to the elimination of waste in manpower and materials and to obtain a better product at reduced cost through proper planning of the house and site. Eight important factors in planning are discussed.

(130) "CHIMNEY LOCATION"—(a) Part 1, in *Housing Research* for October 1952, pages 57-58; (b) Part 2, in *Housing Research* for March 1953, pages 59-60; author not named; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢ per issue. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Brief suggestions, illustrated by diagrams, intended as a practical money and materials saver for the home builder.

(131) "SAVING COPPER IN HOUSE WIRING"—(a) Part 1: "Service Entrance Cable," in *Housing Research* for October 1952, page 59; (b) Part 2: "Fixed Appliance Circuits," in *Housing Research* for March 1953, pages 61-62; author not named; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C. Price: 30¢ per issue. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Brief suggestions, illustrated by diagrams, intended as practical money and materials savers for the home builder.

(132) DESIGN DATA FOR SOME REINFORCED LIGHTWEIGHT AGGREGATE CONCRETES by Robert C. Reichel, Structural Engineer, Division of Housing Research, Housing and Home Finance Agency. The investigations on which this report is based were performed in the laboratories of the National Bureau of Standards, U. S. Department of Commerce, by William C. Green and D. Watstein, under the general direction of Douglas E. Parsons, Chief of Building Technology at the Bureau; published by the Housing and Home Finance Agency, Division of Housing Research, in October 1953, as its "Housing Research Paper No. 26." —19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1: Introduction; 2. Description of Test Specimens; (a) description of Materials; (b) Preparation and Proportioning of Aggregates; (c) Mixing Procedure; (d) Casting of Test Specimens; (e) Curing of Test Specimens; 3. Description of Tests; (a) Compressive strength; (b) Flexural strength; (c) Shearing strength; (d) Bond strength; (e) Modulus of elasticity; (f) Drying shrinkage; (g) Thermal conductivity; 4. Results and Observations; 5. Discussion; and 6. Conclusions and Recommendations.
ABSTRACT. This report is based on one of a series of investigations aimed at improving the quality and economy of construction utilizing lightweight aggregate concretes. It is limited to reinforced relatively low-strength mixes (below 2,000 p.s.i.) used monolithically in a structure as distinguished from masonry units. Coordinated factual data are presented on the structural and physical properties of nine mixes for each of three types of aggregates used. The significance of these data for practical applications is summarized, permitting an evaluation of the suitability of these concretes for any specific structural use. The investigation was sponsored by the Housing and Home Finance Agency under a research contract.

(133) "WILL SCIENCE PLAN THE HOME OF TOMORROW?" by George A. Speer; in *Housing Research*, Spring 1952, pages 39-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Study of Existing Information; 2. Family Preferences; 3. Most Wanted House; 4. The "Space Use Laboratory" in Action; 5. Size and Location of Rooms Vary; and 6. Conclusions.
ABSTRACT. Under an HHFA research project, a most unusual "space use laboratory" has been devised at the Small Homes Council, University of Illinois. It will evaluate the effect of residential space arrangement upon living habits. This article discusses the results of careful research into expressed preferences of families included in many housing surveys since 1936, and then describes how this information will be used in the "space use laboratory." If the experiment is successful it will develop a technique for truly scientific space planning which may pay big dividends in conservation of materials and manpower during an emergency. The article is illustrated by five photographs.

(134) STANDARDS FOR HEALTHFUL HOUSING: CONSTRUCTION AND EQUIPMENT OF THE HOME by the American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1951.—77 pages; price: $2.50. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

Includes a consideration of: 1. The Structural Framework of the Dwelling; (a) Housing and health; (b) Dollar values and human values; (c) The dwelling and its environment; (d) The structural shell of the house; (e) The walls and roof; (f) The influence of window design and orientation; (g) The Committee's approach to the problem; 2. Problems of Heating and Ventilation; (a) Objectives of air conditioning in the home; (b) Physiological relations of man to his thermal environment; (c) Standard thermal conditions for comfort in the home; (d) Site planning in relation to thermal conditions in the home; (e) Relations of building construction to thermal conditions in the home; (f) Available types of equipment for winter heating; (g) Health characteristics of various methods of heating the home; (h) The problems of summer air conditioning; 3. Provision of Adequate Illumination; (a) The purposes of illumination; (b) The physiology of vision; (c) Standards for adequate illumination; (d) Natural light; (e) Artificial illumination; 4. Control of Noise; (a) Purposes of noise control; (b) General aspects of the noise problem; (c) The establishment of rational criteria; (d) Methods of noise control; 5. Provisions for Sanitation in the Home; (a) The problems involved; (b) Provision for cleanliness within the dwelling; (c) Provision of hot water; (d) Standards for the plumbing system where water carriage is available; (e) Disposal of excrete where no supply of water under pressure is available; (f) Exclusion of vermin from the dwelling; (g) Disposal of garbage; (h) Storage and refrigeration of food; 6. Equipment Essential for Good Housekeeping; (a) Scope of the chapter; (b) Food handling equipment; (c) Home laundering facilities; 7. Safety in the Home; (a) Extent and nature of the problem; (b) General structural safety; (c) Protection against fire hazards; (d) Stairways; (e) The problem of flooring; (f) Windows and doors; (g) Electrical equipment; (h) Protection against gas poisoning; (i) Safety in the kitchen; (j) Safety in the bathroom; (k) Adequate storage as a safety factor; (l) Problems of outdoor safety; (m) Provision of safe play areas; 8. The Development of Legal and Administrative Standards for Dwelling Construction; (a) Principles of regulation in American municipal and administrative law; (b) The regulation of building construction; (c) Defects in our present system of regulation; (d) Specification

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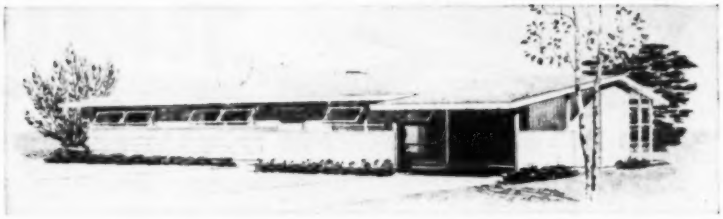

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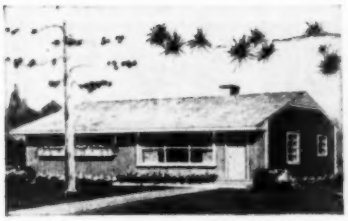
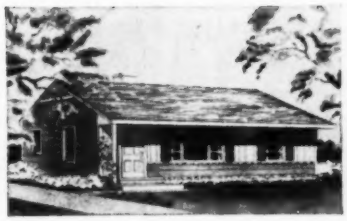

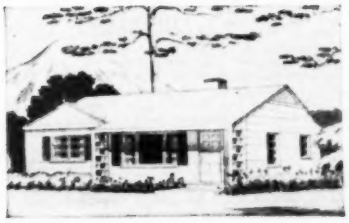

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codes and performance codes; and (e) Essential conditions for the operation of a performance code. NOTE: The work also contains the following Tables and Figures: TABLES: 1. Heat interchange between the human body and its environment; 2. Levels of illumination for the home; 3. Available daylight illumination from whole clear sky in the U. S.; 4. Requirements for providing various levels of illumination; 5. Comparison of luminaire types; 6. Effect of decoration on the efficiency of artificial lighting; 7. Suggested electrical outlets for residences; 8. Comparative brilliance of light sources; 9. Guide to portable lamps and bulb sizes; 10. The recommended noise standards for housing sites; 11. The recommended noise isolation standards for construction. 12. The proposed standards for sound absorbing finishes and furnishings. FIGURES: 1. Control of light in the visual field; 2. Distribution of light in the visual field; 3. Brightness contrasts in the visual field; 4. Sound level scale in decibels; 5. Sound levels of vehicular traffic in decibels; 6. Variations in sound levels of vehicular traffic in decibels; 7. Average background sound levels in decibels; 8. Qualitative zones of relative comfort in residential rooms; and 9. Average transmission loss for typical wall and floor constructions.

ABSTRACT. This third—and final—volume of the series differs from the two earlier reports in that it deals not with a single, more or less uniform topic but with a series of special problems, each of which has been prepared by a specialist in the field concerned. This volume was prepared for the Committee on The Hygiene of Housing as a contribution of its Subcommittee on Construction and Equipment. The members of this sub-committee were: Henry S. Churchill, *Chairman* (who wrote Chapter 1 concerning the structural framework), Carl F. Boester, Richard H. Bolt (who cooperated with Robert B. Newman in writing Chapter 4 concerning the control of noise), Elisabeth Coit, Robert L. Davison, Thomas Fansler (who wrote Chapter 7 concerning safety in the home), Clarence W. Farrier, Mary Rokahr, Enid Sater Ross (who wrote Chapter 6 concerning equipment), Donald Y. Solandt (who wrote Chapter 3 concerning illumination), Miles A. Tinker, Howard P. Vermilya (who wrote Chapter 8 concerning standards), Maude Wilson, and Douglas Orr. Chapters 2 (concerning heating and ventilation) and 5 (concerning sanitation) were written by Professor C.-E. A. Winslow. For the first and second reports in this series, see items (92) and (123) of this reading list.

(135) LIVE LOADS ON FLOORS IN BUILDINGS by John W. Dunham, Guttorm N. Brekke, and George N. Thompson; Building Materials and Structures Report BMS 133; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 19, 1952.—27 pages; price: 20c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Residential Occupancy; 3. Business Occupancy; (a) Offices; (b) Method of conducting surveys; 4. Mercantile Occupancy; 5. Assembly Occupancy; (a) Schools; (b) Crowded rooms; 6. Institutional Occupancy; (a) Hospitals; 7. Industrial Occupancy; (a) Mattress factory, Chicago, Ill.; (b) Mattress factory, Atlanta, Ga.; (c) Men's clothing factory, New York, N. Y.; (d) Dress factory, Philadelphia, Pa.; (e) Furniture factory, Gettysburg, Pa.; (f) Furniture factory, Grand Rapids, Mich.; (g) Newspaper plant, Washington, D. C.; (h) Printing plant, Washington, D. C.; 8. Storage Occupancy; (a) Warehouse, New York, N. Y.; (b) Warehouse, Washington, D. C.; 9. Variation in Loading; 10. Discussion; and 11. Selected References.

ABSTRACT. Information is presented on floor loads found in various occupancies such as office buildings, stores, factories, and warehouses. Most of this consists of the results of a recent survey in which the weight and distribution of goods, equipment, and occupants were obtained floor by floor and area by area. Such data are needed as a check on permissible minimum live loads in building codes and as a basis for design of buildings. Although there are indications in the survey that building codes may set higher figures than are warranted for certain occupancies, the amount of information available is still too small to justify firm conclusions. A method of reducing the assumed value for live load on structural members supporting large floor areas is described. Supplementary investigations of floor loading are recommended to clear up questions that have arisen in connection with the survey. Variations in loading within the same occupancy are shown. It has been found possible to increase allowable stresses for some building materials as a result of better quality control and increased knowledge of strength characteristics. However, loads and stresses are so intimately associated that good information on loads is essential in order to realize the full advantage of economical design and to conserve scarce materials. It is believed that the data presented in this report (covering several occupancies about which detailed information had hitherto been lacking) will assist in accomplishing these objectives.

(136) PERFORMANCE STANDARDS FOR RELOCATABLE HOUSING—Prepared and published by Housing and Home Finance Agency, Office of the Administrator, Washington, D. C. Revised Edition, January 1953.—37 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Relocatability; 2. Space and Arrangement; 3. Structural Design; 4. Footings and Foundations; 5. Floors; 6. Weather Resistance; 7. Interior Coverings, Walls, Partitions, and Ceilings; 8. Roofing; 9. Exits, Stairs and Doors; 10. Condensation; 11. Termite and Decay Resistance; 12. Plumbing; 13. Heating; 14. Electrical Requirements; and 15. Miscellaneous.

ABSTRACT. Relocatable housing is distinguished from conventional fixed-to-site housing only in that it is designed to be readily and economically relocated if necessary. The performance standards described have been based largely on housing Design Standards for Construction by Federal Agencies for Civilian and Military Personnel, prepared by the Division of Housing Research, Housing and Home Finance Agency, November 20, 1951, and on the trial-run of relocatable housing conducted by the Housing and Home Finance Agency and reported in Relocatable Defense Housing, Housing and Home Finance Agency, June 1952.

(151 "REGIONAL DESIGN CHARACTERISTICS OF NEW HOUSES" by E. Everett Ashley, 3d, and George R. Kinzie; in *Housing Research*, October 1952, pages 29-33; published by Housing and Home Finance Agency, Washington, D. C.; price: 30c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Climate, zoning ordinances, and local custom all play their part in influencing design characteristics of our housing. Hence, despite the uniformity of much of our building materials and equipment throughout the country, very definite regional differences exist in the types and character of houses which are built from them. This article points up some of the findings of HHFA's Housing Materials Use Survey. It includes a consideration of: 1. Source of Data; 2. General Housing Characteristics; (The following break-down is given for each of five regions): (a) Number of rooms; (b) Basements; (c) Roofs; (d) Porches and Terraces; (e) Garages and Carports; (f) Window and door screens; and (for the Southern States) (g) Termite protection; and 3. Regional Differences in Installed Equipment.

NOTE: For a description of the above survey and certain over-all statistics dedeveloped from it, *see* the article "Surveying Materials Used in House Construction" by Max Lipowitz and Winfield Best, in *Housing Research*, Fall 1951, which is cited in the present reading list as item (153). *See also* item (751) "The Materials Use Survey—a Study of the National and Regional Characteristics of One-Family Dwellings Built in the United States in the First Half of 1950" by E. Everett Ashley, 3d, Philip A. Randall, George R. Kinzie, and Robert L. Strelitz.

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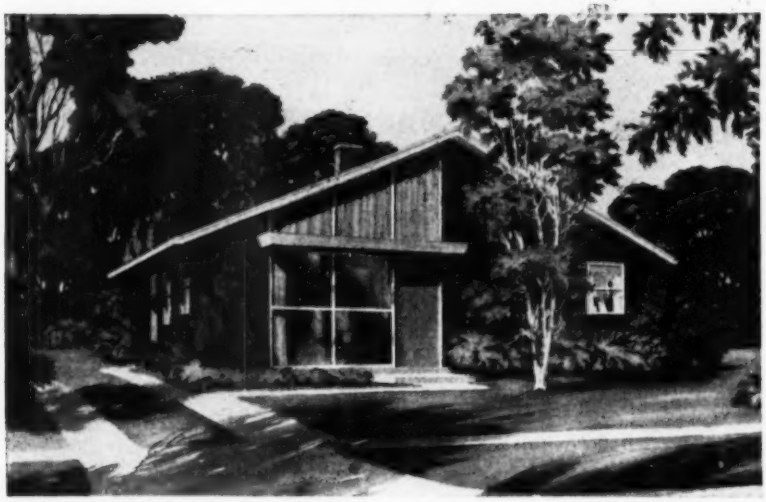

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(152) "REGIONAL PATTERNS OF MATERIALS USED IN NEW HOUSES" by George R. Kinzie; in *Housing Research*, Winter 1951-1952, pages 31-36; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Water Systems; 2. Roof Covering; 3. Interior Wall and Ceiling Finish; 4. Kitchen Cabinets; 5. Heating Equipment; 6. Gutters and Downspouts; 7. Screening Material; 8. Ceiling Insulation; 9. Interior Wiring; and 10. Design Characteristics.

ABSTRACT. To what extent are asphalt shingles used in recently-built houses, and in what parts of the country are they used most? How about regional variations in materials used for roof gutters, screening, water systems, and other house-construction elements—especially those involving scarce metals? Facts answering these questions are useful to materials and equipment manufacturers, dealers, and home builders, as well as to government officials concerned with materials requirements for housing during an emergency. In this article these facts have been selected from results of the HHFA Housing Materials Use Survey.

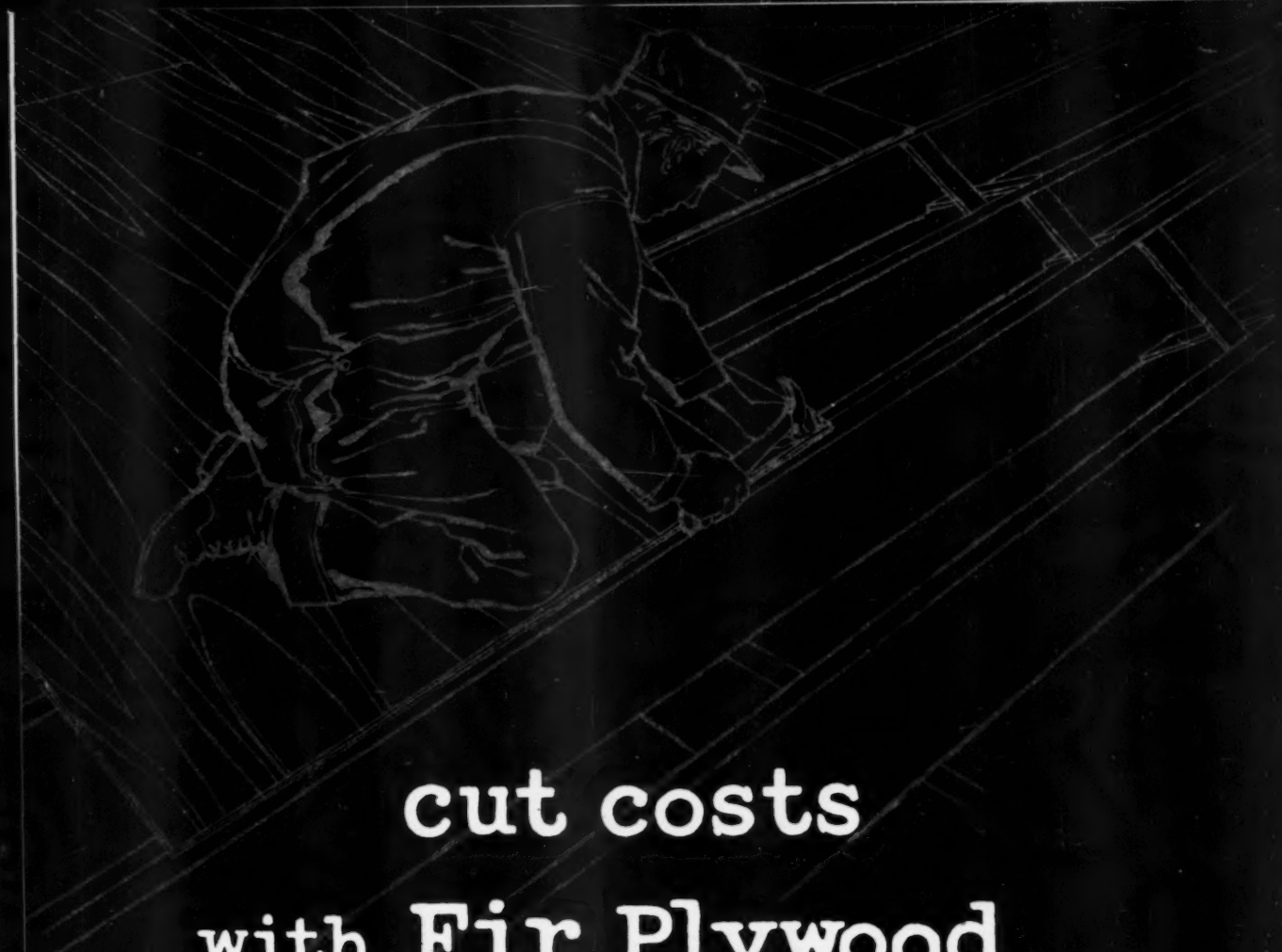
(153) "SURVEYING MATERIALS USED IN HOUSE CONSTRUCTION" by Winfield Best and Max Lipowitz; in *Housing Research*, Fall 1951, pages 35-40; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sketch of Selected Initial Results; (a) Fuel used for heating new houses; (b) Materials used for house water piping; (c) One-story vs. two-story houses; (d) Basements vs. no basements; (e) Number of rooms per house; (f) Floor area per house; 3. Technical Note—Planning and Processing the Survey; (a) Planning the survey; (b) Development of sample; (c) Adjustments to the FHA sample.

ABSTRACT. The HHFA Materials Use Survey described here is the first of its kind ever attempted on a comprehensive basis to permit computations of all materials used in all United States single-family detached houses built during a certain period. The results are already being used to calculate future housing materials requirements. Planning and development of the survey was handled by the Economics and Technology Branches of the HHFA Division of Housing Research. Mr. Lipowitz and Philip Randall were HHFA staff technicians for the survey.

(161) WATER-DISTRIBUTING SYSTEMS FOR BUILDINGS by Roy B. Hunter; Building Materials and Structures Report BMS 79; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 5, 1941.—25 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of the Investigation; 3. Basis for Estimates of Capacity; (a) Pipe formulas; (b) The rational pipe formula; (c) Approximate formula for smooth pipe; (d) Approximate formulas for rough pipe; (e) Graphical presentation of flow formulas; 4. Estimates of Capacities of Pipes in Service; (a) Methods of allowing for decrease in capacity with age; (b) Decrease in capacity relative to changes in roughness and diameter; (c) Allowances for decrease in capacity under particular service conditions; (d) Decrease in capacity of small galvanized-steel and nonferrous pipes due to aging; (e) Facts regarding corrosion and caking; 5. Selection of Sizes of Water-Supply Pipes; (a) Essential steps in selecting serviceable pipe sizes; (b) Method of making demand estimates; (c) Estimation of pressure available for friction loss



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in pipes; (d) Pressure loss in water meters; (e) Example illustrating steps in selecting sizes of water-supply pipes; (f) Demand estimates and pipe sizes for particular types of buildings; (g) Networks of pipes in water-distributing systems; 6. Conclusions; 7. Appendix; and 8. References.

ABSTRACT. This report gives information relating to the selection of pipe sizes and design of distributing systems for adequate supply of water in buildings. It contains flow charts showing the capacities of different commercial sizes of pipe in terms of friction loss in head for four degrees of roughness, depending on the pipe material and the character of water with which the pipe is used. A practical procedure is developed for the economical selection of pipe sizes for the different demands for each part, depending on the estimated demand and on the pressure available for friction loss as computed for particular service conditions. Suggested variations in the procedure provide convenient means of allowing for decrease in capacities of pipes in service. One of the difficult design problems involved in the economical construction of water-supply systems in buildings is the selection of the smallest sizes of pipes for the various parts of the system that will assure an adequate supply of water at all outlets in the building under particular service conditions, such as the available service pressure and difference in elevation between the source of supply and the fixtures. The most difficult aspect of the problem arises from the fact that it is not sufficient to provide for an adequate supply when the pipes are new, but that a suitable allowance must be made for the decrease in capacity caused by the deterioration of the interior surface of the pipes with age. This involves the choice of materials for the pipes which will be best adapted to the characteristics of the particular water that will be used.

NOTE: An earlier report BMS 65 (item 241 of this reading list) gives a method of estimating water demand loads, based on the number and kind of fixtures installed in the plumbing system.

(162) "WATER FLOW RATES IN PIPING" by Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950, pages 17-19; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. This article is intended as a brief introduction to the use of the terms "fixture unit" and "fixture unit rating."

(171) SNOW LOAD STUDIES by U. S. Weather Bureau specialists, etc. (See below); published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1952, as "Housing Research Paper No. 19." —19 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. General Approach; 2. Snow Pack Characteristics; 3. Maximum Snow Pack Weight; 4. Limits of Accuracy; 5. Design Load; 6. Frequency Analysis; 7. Failure Load; 8. Maximum Probable Snowstorm; 9. Interpretation of Results; 10. Flat Roofs; 11. Sloping Roofs; 12. Vertical, Wind, and Earthquake Combinations; 13. Appendix A: Controlling Snowstorms; 14. Appendix B: References.

ABSTRACT. This paper presents a research study on snow loads, a subject on which only limited factual data have heretofore been available to those responsible for establishing safe design loads for buildings. The study was developed under the direction of Merrill Bernard, and later W. E. Hiatt, both of the Weather Bureau, U. S. Department of Commerce, under an H.H.F.A. research project. J. T. Walser of the Weather Bureau was project leader, and was assisted by many able Weather Bureau specialists such as W. T. Wilson, R. D. Tarble, L. H. Paulhus, M. A. Kohler, C. S. Gilman, R. W. Schloemer, and R. F. Kresge. A suggested interpretation of results, as they apply to safe design loads for roofs, prepared by William A. Russell, H.H.F.A. structural engineer, is included.

(172) "SNOW LOAD STUDIES" by William A. Russell; in *Housing Research*, Spring 1952, pages 53-57; published by the Housing and Home Finance Agency Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,

Includes a consideration of: 1. Introduction; 2. General Approach; 3. Design Load; 4. Frequency Analysis; 5. Failure Load; 6. Interpretation of Results; 7. Suggested Design Loads; 8. Vertical, Wind, and Earthquake Combinations; 9. Sloping Roofs; and 10. Acknowledgments.

ABSTRACT. This article, illustrated by figures and tables, presents a brief summary of a research study on snow loads, a subject on which only limited factual data have heretofore been available to those responsible for establishing safe design loads for buildings. The study was made by many able specialists of the Weather Bureau, U. S. Department of Commerce, under a research project, sponsored by the Housing and Home Finance Agency. A detailed report of this study, together with a suggested interpretation of results, is contained in *Housing Research Paper No. 19*, for which see item (171) of this reading list.

(b) Climate, Humidity and Insulation

(181) CLIMATE AND ARCHITECTURE; SELECTED REFERENCES—A bibliography prepared (in the Library of the Office of the Administrator, Housing and Home Finance Agency) by Miss Marie G. Abbruzzese, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1951.—20 pages; price: not stated. Order copies from the Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Climate Control Projects; (a) House Beautiful magazine (items 1-42); (b) Bulletin of the American Institute of Architects (items 43-53); 2. Background in Science; (a) Climatology (items 54-59); (b) Microclimatology (items 60-63); (c) Weather Data (items 64-72); (d) Effect of Climate on man (items 73-80); 3. Designing with Climate; (a) Theory (items 81-89); (b) Practice (items 90-141, covering the following 16 States: Arizona, California, Colorado, Connecticut, Florida, Illinois, Kansas, Maine, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Texas, Washington, and Wisconsin); 4. Research and Experiment; (a) The winter sun (items 142-148); (b) The summer sun (items 149-163); (c) Ventilation (items 164-171); and (d) Wind (items 172-175); and 5. Index.

ABSTRACT. A comprehensive bibliography of 175 articles and other published works dealing with various phases of climate and architecture appearing in magazines, papers, periodicals, and books, domestic and foreign. One section is devoted to the Climate Control Project of the "House Beautiful" magazine, with a chronological list of the nontechnical articles in that periodical, and a supplement to this group of technical reports issued by the American Institute of Architects. It was prepared for the HHFA Division of Housing Research by the Library, Office of the Administrator, HHFA.

(182) CLIMATE AND ARCHITECTURE by Jeffrey Ellis Aronin; published by Reinhold Publishing Corporation, 330 West 42nd Street, New York 36, N. Y., 1953—304 pages; price: $12.50.

Includes a consideration of: 1. Background; 2. The Sun; (a) Effect of the sun on the earth; (b) Design and the sun; (i) The individual unit; (ii) Housing layouts; (iii) City planning; 3. Temperature; (a) Recording the temperature; (b) Design and temperature; (i) Macroclimatic air; (ii) Microclimatic air; (c) Related phenomena; 4. Wind; (a) Measuring the wind; (b) Design and the wind (i) Macroclimatic wind; (ii) Microclimatic wind; (iii) Individual buildings; (iv) Site, city, and town planning; 5. Precipitation; (a) Types of precipitation; (b) Measuring precipitation; (c) Design and precipitation; (i) Macroclimatic conditions; (ii) Microclimatic conditions; (iii) Protection; 6. Other Climatic Factors; (a) Lightning; (b) Humidity; 7. Conclusion; 8. Bibliography; and 9. Index.

ABSTRACT. This work presents a new approach to the old problem of designing buildings that are in harmony with the climate. The elements of climate are fully described and the limitations imposed by the climate are discussed. The author has gathered together the latest pertinent and helpful information, including charts and graphs, from widely-scattered sources, and has augmented this information with his own findings. The physics of the influences of the sun, temperature, wind, precipitation, lightning, and humidity upon architecture, as well as their beneficial and disadvantageous effects under given conditions, are covered. The author also discusses the control of these effects through the orientation of buildings, site and town planning, and the use of such devices as brise-soleil, trees, windbreaks, and snow fences. The work contains 55 tables and over 300 illustrations, maps, etc. It also suggests solutions to such problems as site selection, how to avoid snow-shovelling chores, how to keep a dry basement and a dry area around the house, how to install lightning rods, how to sleep comfortably on hot summer nights, and how to plant the best trees and vines for comfort, protection and beauty. The author is a graduate of Hamilton College and McGill University and an observer of the Canadian Army's Exercise Muskox (1946).

(183) APPLICATION OF CLIMATIC DATA TO HOUSE DESIGN by Victor and Aladar Olgyay, Thomas F. Malone, and Don G. Friedman, with the assistance of Peter Kowalski and Jay G. Fleishman. The work was administratively supervised by Burnham Kelly, Director of the Bemis Foundation, and technically guided by the Advisory Committee of the Massachusetts Institute of Technology, consisting of Professors Lawrence B. Anderson, Albert G. H. Dietz, Hoyt C. Hottel, Henry G. Houghton, Burnham Kelly, and Parry Moore, and of Richard W. Hamilton, research associate at the Bemis Foundation. The work was sponsored by the Housing and Home Finance Agency, Division of Housing Research, of which Joseph H. Orendorff is Director, and Bernard Wagner was project technician; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in June 1953.—30 pages, plus folding chart.

Includes a consideration of: 1. Introduction; 2. Summary of Project Work; 3. Appendix Report No. 1; 4. Appendix Report No. 2; 5. Appendix Report No. 3; 6. Appendix Report No. 4; 7. Appendix Report No. 5; 8. Appendix Report No. 6; 9. Suggestions for Future Research; 10. Bioclimatic Chart for U. S. Temperate Zone Inhabitants (a folded insert); and 11. Additional Charts and Diagrams (14 pages).

(184) PHYSIOLOGICAL OBJECTIVES IN HOT WEATHER HOUSING: AN INTRODUCTION TO THE PRINCIPLES OF HOT WEATHER HOUSING DESIGN by Dr. Douglas H. K. Lee; pub-

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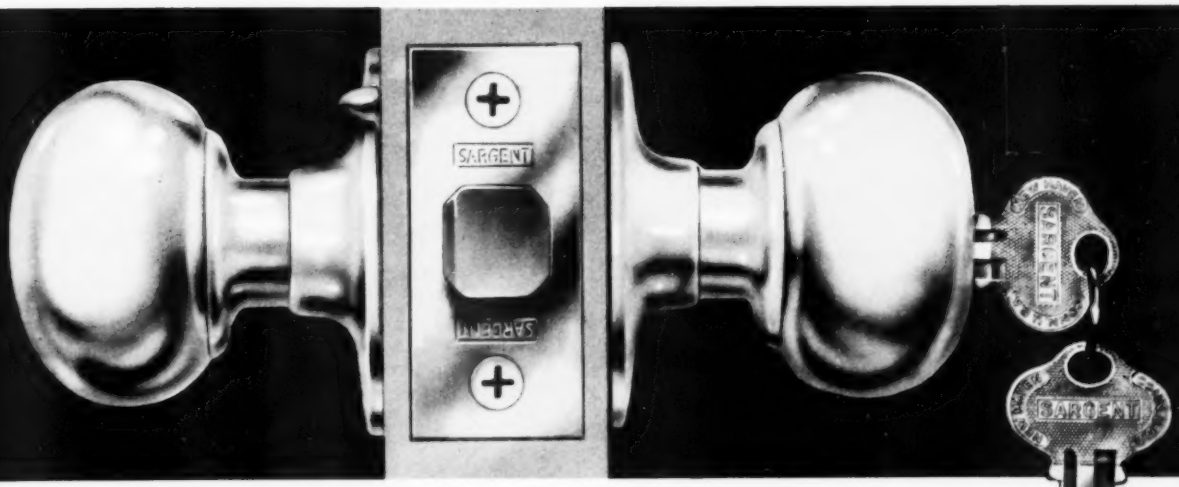

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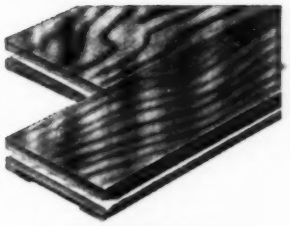
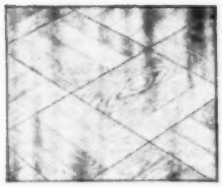
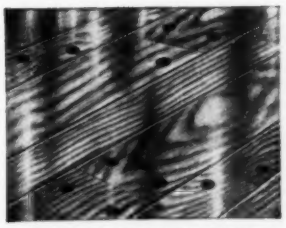


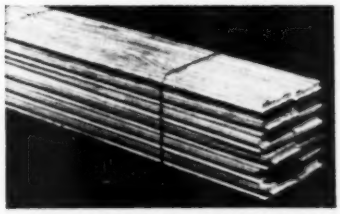
OAK FLOORS
Prefinished and Unfinished



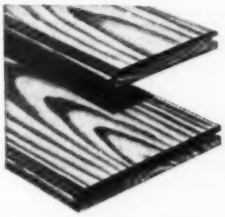
OAKBLOK FLOORS



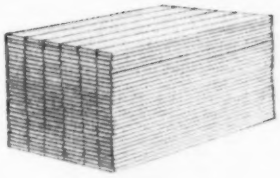
OAK PLANK FLOORS



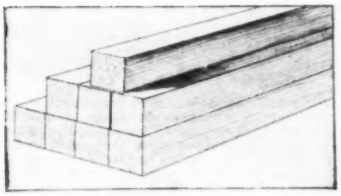
END-MATCHED SOUTHERN PINE FLOORING



SOUTHERN PINE PANELING

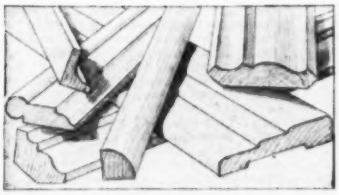


SOUTHERN PINE LUMBER

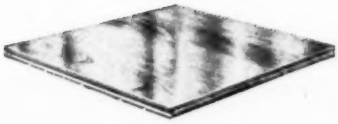


SOUTHERN PINE TIMBERS

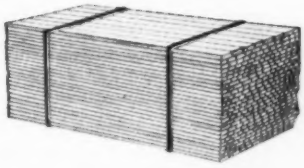
PALLETIZED HARDWOOD FLOORING



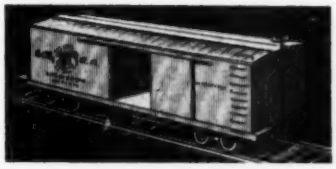
SOUTHERN PINE MOULDING AND TRIM



MULTI-WOOD BLOK FLOORS



PALLETIZED FURNITURE DIMENSION



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lished by the Housing and Home Finance Agency, Office of the Administrator, International Housing Activities Staff, Washington, D. C., June 1953.—79 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Significance of Hot Environments for Man; (a) Human heat balance; (b) Consequences of heat stress. (c) Individual variation in response; (d) Tolerance levels; 3. Basic Climatology of Tropical and Subtropical Regions; (a) Air temperature; (i) Sun the source of heat; (ii) Effect of latitude and season; (iii) Effect of atmospheric impurities; (iv) Effect of land and water; (v) Effect of winds and air mass movement; (vi) Effect of altitude; (vii) Understanding the local pattern; (b) Vapor pressure; (c) Air movement; (d) Radiant energy; (i) Direct solar radiation; (ii) Solar radiation reflected from clouds, etc.; (iii) Solar radiation reflected from terrain; (iv) Ground temperatures and thermal radiation; (v) "Sky" temperatures and thermal radiation; (e) Classification of climates; 4. Housing as Climatic Protection in Hot Dry Environments; (a) Nature of hot dry environments; (b) Principles directed to reducing human heat production; (c) Principles directed to reducing gains and promoting losses from the body by radiation; (i) External shade; (ii) Reduced ground reflection; (iii) Attached shade; (iv) Water cooling of exterior; (v) Minimal solar projection; (vi) High reflectivity and high reemission; (vii) Convection over surfaces exposed to radiation; (viii) Insulation; (ix) Convection over inner surfaces; (x) Low emissivity of inner surfaces; (xi) Ceiling height; (d) Principles directed to reducing gains and promoting losses from the body by conduction; (i) Insulation; (ii) Controlled ventilation; (iii) Ventilation of roof spaces; (iv) Ground cooling; (v) Evaporative cooling; (vi) Refrigerant cooling; (e) Principles directed to reducing heat liberation in the building; (f) Summary; 5. Housing as Climatic Protection in Warm Humid Environments; (a) Nature of warm humid environments; (b) Principles directed to reducing human heat production; (c) Principles directed to reducing gains and promoting losses from the body by radiation; (i) External shade; (ii) Reduced ground reflection; (iii) Attached shade; (iv) Minimal solar projection; (v) High reflectivity and high reemission; (vi) Convection over surfaces exposed to radiation; (vii) Insulation; (viii) Convection over inner surfaces and ventilation of roof space; (ix) Low emissivity of inner surfaces; (x) Ceiling height; (d) Principles directed to promoting losses from the body by evaporation; (i) Ventilation (volume flow); (ii) Air movement (velocity of flow); (iii) Dehumidification; (e) Principles directed to reducing heat liberation in the building; (f) Summary; 6. Modifying Effects of Climatic Fluctuations; (a) Alternation of hot dry and cool temperate conditions; (b) Alternation of hot dry and warm humid conditions; (c) Alternation of warm humid and cooler conditions; (i) Warm humid and temperate; (ii) Warm humid and cold temperate; (d) Moist air movement into hot dry areas; 7. Functional Considerations; (a) Sleeping quarters; (b) Veranda; (c) Kitchen; (d) Laundry space; (e) Security and storage; 8. Acknowledgments; 9. Appendix 1: The Heliodon; 10. Appendix 2: The Psychrometric Chart; 11. Appendix 3: Tables of Incidence of Solar Radiation; and 12. Appendix 4: Important References.

ABSTRACT. The purpose of this booklet is to present those principles the observance of which it is believed would minimize the direct effects of hot environments upon man, insofar as housing and shelter can do this. The study and report were undertaken at the suggestion of the International Housing Activities Staff (Jacob L. Crane, Director) of the Housing and Home Finance Agency, in order to provide a simple description of the basic physiological principles which should be observed in the design and planning of housing for hot climates. It is intended for use in connection with shelter improvement work in underdeveloped countries which are participating in the Technical Cooperation Program. The report was prepared by Dr. Lee (Professor of Physiological Climatology at the Johns Hopkins University) under a contract with the United States Government, Department of State, Technical Cooperation Administration, Institute of Inter-American Affairs.

(191) A SURVEY OF HUMIDITIES IN RESIDENCES by Thomas D. Phillips; Building Materials and Structures Report BMS 56; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 9, 1940.—6 pages. Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sources of Data; 3. Tabulation of Data; 4. Graphs of Relative Humidities; 5. Distribution of Vapor Pressures; 6. Distribution of Interior Dew Points; 7. Effect of Continued Cold Weather or Low Exterior Absolute Humidity; and 8. Conclusions.

ABSTRACT. This report presents the results of a survey of the relative humidities prevailing in occupied houses during the winter. The observations were made by students of colleges cooperating in the survey, working under the supervision of the physics departments of the colleges, and data were obtained from 26 localities in the northern part of the United States. In general, in the occupied houses, the moisture content of the air was sufficient to make the interior condition from 10- to 15-per cent relative humidity higher than would have resulted from heating outside air to 70° F without change in moisture content. Prior to this survey it was known, in general, that the relative humidity in heated houses during cold weather was likely to be rather low, and many means of increasing the humidity had been devised and advocated. However, there had been a lack of specific information on the conditions actually prevailing.

(192) "HUMIDITY CONDITIONS IN MODERN HOUSES" by Robert C. Reichel; in *Housing Research*, October 1953, pages 9-20; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Summary of Background Principles; (a) Behavior of humidity; 3. Technical Tests and Findings; (a) Humidities in houses; (b) Effect of humidity on wood-frame walls; 4. Summary and Conclusions—Application of the Findings; (a) Reduction of source of moisture; (b) Ventilation of the interior air; (c) Vapor barrier application; (d) Ventilation of cold spaces to the exterior; and (e) Suggested reading list.

ABSTRACT. This article summarizes recently completed research regarding the amount and effect of humidity in our modern conventionally built homes. It first reports on technical tests made to develop reliable data relating to actual humidity conditions in houses. The summary and conclusions contain generally applicable information on humidity control of interest to nontechnical as well as technical readers. Conclusions reached are (1) that a temperature of 70° F and a relative humidity of 40 per cent are realistic wintertime planning and testing values for the interior conditions of our tight modern homes; (2) that our modern ways of living necessitate that humidity and its effects be a major consideration in the building or improvement of all homes in our cold and temperate climates; and (3) that intelligent application of known principles and methods of control by all of those concerned can greatly reduce the maintenance and increase the livability and durability of our homes. The research was conducted, under HHFA projects, at the Pennsylvania State College, State College, Pa., and at the University of Minnesota, Minneapolis. At the Pennsylvania State College, Profs. Frank A. Joy and E. R. McLaughlin were in charge of the laboratory work under the general direction of Prof. E. R. Queer, assistant director of the Engineering Experiment Station. At the University of Minnesota, M. L. Erickson, was in charge of the laboratory work under the general direction of Prof. C. E. Lund, assistant director of the Engineering Experiment Station.

(201) EFFECT OF CEILING INSULATION UPON SUMMER COMFORT by Thomas D. Phillips; Building Materials and Structures Report BMS 52; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1940.—10 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Method; 3. Temperature of the Uninsulated Ceiling; 4. Temperature of the Ceiling Under an Attic Floor; 5. Comparison of Types of Insulation; 6. Conclusions; and 7. Summary.

ABSTRACT. This investigation deals with the effect of insulation in limiting the temperature rise of the rooms in the upper story of a building with a flat roof. For test purposes a structure was built on the roof of one of the buildings at the National Bureau of Standards. This structure has a "flat" (slightly sloping) roof, below which is a low attic separated from the room below by a ceiling of plasterboard. Various types of insulation were installed just above the ceiling to insulate it from the attic space. The temperature of the ceiling in the room below was measured, and the effect of the insulation in limiting the rise in the temperature of the ceiling was determined. The results show that a lath and plaster or equivalent ceiling exposed directly to the heat of the attic will be so hot on warm summer days as to add materially to the discomfort of persons in the room below. Even a moderate amount of insulation will make the room much more comfortable.

(202) "THE FULLY INSULATED HOUSE" by Robert K. Thulman; in *Housing Research*, March 1953, pages 43-51; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Insulation Defined; 2. Other Factors Which Reduce Heat Loss; (a) Design and shape of house; (b) Glass area; (c) Wall and ceiling area; (d) Construction; 3. Good Ceiling Insulation; 4. Good Wall Insulation; 5. Good Floor Insulation; 6. Insulation of Glass Areas; 7. Insulation Against Air Leakage; 8. Total Heat Loss of Well-Insulated House; 9. Insulation an Investment; and 10. Cost.

ABSTRACT. When walls, ceilings, floors, and windows are insulated to the full extent that space and construction permit, and the several types of insulating materials are applied to the house to the best advantage, reduction in heat loss to an equivalent 35 B.t.u. per square foot of floor area can be easily accomplished. The result in terms of operating economy, metal and fuel conservation, and improved comfort are of significant importance to everyone connected with the home building industry. The opportunity for the development of new concepts of house heating is of equal importance to the house heating industry. This article describes methods of insulating which utilize heat-resistant construction to its full practical potential, shows simple calculations of the resulting reductions in heat loss, and recommends insulation as a high priority essential to every home owner.

(c) Controlling Condensation

(211) MOISTURE CONDENSATION IN BUILDING WALLS by Harold W. Woolley; Building Materials and Structures Report BMS 63; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 14, 1940.—14 pages; price: 10¢. Order copies from Su-

perintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Principles Involved in Condensation; 3. Means of Preventing Condensation; 4. Conclusions; and 5. References.

ABSTRACT. Moisture condensation in insulated walls will occur under certain conditions. This paper discusses these conditions in a general way and makes available to architects, builders, and others, information concerning factors which control humidity in walls. These factors are presented so as to make possible estimates of the probability of moisture condensation in walls of dwellings if the factors governing it such as design, structural materials, construction details, and moisture conditions inside and outside the building are known. The list of references includes many studies of this problem in relation to frame construction published by the Forest Products Laboratory.

(212) LABORATORY OBSERVATIONS OF CONDENSATION IN WALL SPECIMENS by Richard S. Dill and Herman V. Cottony; Building Materials and Structures Report BMS 106; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 2, 1946.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Apparatus; 3. Test Specimen; 4. Test Methods and Conditions; (a) Methods; (b) Conditions; 5. Procedure and Observations; 6. Conclusions; and 7. References.

ABSTRACT. Water-vapor migration and condensation in walls were investigated by means of a laboratory apparatus whereby a specimen wall was exposed to cold air on one side and to warm, humidified air on the other side. The wall was insulated and protected against water-vapor condensation in various ways for purposes of observation. The test conditions were a little more severe than those ordinarily expected anywhere in the continental United States. The observed relation between vapor pressure and condensation and the observed effects of vapor barriers are described and discussed. In this investigation it was found that condensation occurred within a heavily insulated wall, but that conditions conducive to condensation within the wall structure could be avoided by the use of an effective vapor barrier or by ventilating the interior of the wall with cold air.

(213) CONDENSATION CONTROL IN DWELLING CONSTRUCTION—Prepared by the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in collaboration with the technical staff of the Housing and Home Finance Agency (For names of the leading contributors, see under "Abstract," below); published by the Housing and Home Finance Agency, Washington, D. C., August 1949 (Second Printing, June 1950). 73 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Purpose and scope; (b) Background; 2. Factors in the Condensation Problem; (a) Vapor barriers; (b) Sheathing paper or sheathing; (c) Ventilation; (d) Thermal insulation; 3. Good Practice Recommendations; (a) Condensation control zones; (b) Sizes of ventilators; (c) Crawl spaces; (d) Walls; (e) Lofts or attics; 4. Condensation Control Details; (a) One-story, flat-roof house; (b) Basementless house, one-story; (c) One-and-one-half-story house with basement; (d) Two-story house with basement; (e) Basementless house, concrete slab floor; (f) Basementless house, crawl-space ventilation; (g) Basementless house, crawl-space ventilation (Continued); (h) Representative types of ventilators; (i) Basementless house, crawl space with soil cover; (j) Basementless house, crawl space with gravel fill; (k) Basementless house, floor detail No. 1; (l) Basementless house, floor detail No. 2; (m) Basementless house, floor detail No. 3; (n) Basementless house, floor detail No. 4; (o) Outside basement wall, decorative finish; (p) Outside basement wall, plaster finish, floor treatment; (q) Side wall, first-floor level; (r) Side wall, first-floor level, fire stop; (s) Side wall, first-floor level (Continued); (t) Vapor barrier and thermal insulation adjacent to a double-hung window; (u) Junction of a partition with an outside wall; (v) Wall detail, blanket insulation attachment; (w) Junction of second floor and wall, balloon construction; (x) Side wall, second-floor level, platform construction; (y) Vapor barrier and thermal insulation at wall-floor intersection at second-floor level; (z) Side wall, second-floor level, joists parallel to the side wall; (aa) Ceiling construction adjacent to an attic space; (bb) Ceiling construction adjacent to an attic space, installed in an existing building; (cc) Junction of attic floor, roof, and side wall; (dd) Junction of a dwarf wall with the attic, floor, and roof; (ee) Junction of attic floor, side wall, and roof; (ff) Attic and crawl-space ventilation, gable roof; (gg) Louver-type ventilator for gable or modified hip roof; (hh) Flat roof cornice; (ii) Ventilation of space below low-pitched roof deck; (jj) Alternate sub-ceiling details; (kk) Hip roof, enclosed rafters; (ll) Modified hip roof with vents; (mm) Special roof vent for hip roof; (nn) Louver-type roof ventilator; (oo) Special roof vent for hip roof (Continued); (pp) Snow and ice dams; (qq) Eave protection, snow and ice dams; (rr) Ice knobs attached to protruding nails; (ss) Opening into unheated attic space, details No. 1, No. 2, and No. 3; (tt) fitting vapor barrier around electric wiring outlet box; (uu) Appendix 1—Methods for computing recommended amounts of insulation; (vv) Appendix 2—Literature cited; (ww) Glossary of condensation and housing terms.

ABSTRACT. This publication, sponsored by the Housing and Home Finance Agency and prepared by the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in conjunction with the constituent housing agencies, sets forth good practice recommendations on condensation control in dwelling construction. Pertinent suggestions and comments, based upon experience and research, were supplied by insulation, roofing, fiber board, building paper industries, and universities. It includes a discussion of condensation problems covering both conditions under which they might be expected, and recommended treatments. A considerable portion of the publication is devoted to sketches and discussions on the installation of vapor barriers when other recognized means of condensation control are not indicated. Ventilation, (1) in the occupied spaces, (2) in crawl spaces, and (3) in attic and loft spaces, also is discussed. Leonard G. Haeger, Director, Division of Standardized Building Codes and Materials; Ralph R. Britton, Chief, Structural Engineering Section; and Laurence Shuman, Chief, Mechanical Engineering Section, all of the Housing and Home Finance Agency; Robert K. Thulman, Chief, Mechanical Engineering Staff, Federal Housing Administration; J. B. Corridon, Director, Plants and Structures Branch, Public Housing Administration; and four technicians at the Forest Products Laboratory: R. F. Luxford, Engineer; L. V. Teesdale, Engineer; F. L. Browne, Chemist; and M. E. Dunlap, Engineer; were the major contributors to, or directors of, the study. The text and details were prepared by M. E. Dunlap, and the illustrations were drawn by J. C. Killebrew of the Forest Products Laboratory. The basic research for the study was largely that of Messrs. Teesdale, Browne, and Dunlap.

(214) "CONDENSATION CONTROL IN DWELLING CONSTRUCTION—GOOD PRACTICE RECOMMENDATIONS" by Ralph R. Britton; in (H.H.F.A.) *Technical Bulletin No. 10*, issued May-July, 1949, pages 11-13; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Condensation Control Zones; 3. Sizes of Ventilators; 4. Crawl Spaces; 5. Walls; and 6. Lofts and Attics.

ABSTRACT. These recommendations have been prepared because of the trouble experienced in dwellings throughout the country due to excessive condensation. This condensation results in expensive repairs and excessive maintenance costs. The recommendations presented here include (1) consideration of climatic conditions at various exposures; (2) methods of calculating ventilation amounts; (3) crawl space treatment; (4) walls; and (5) attic and loft space treatment. These recommendations apply to average conditions in which engineering studies have not determined that other methods of condensation control may be expected to provide durable, economical construction.

(d) Heating and Ventilation

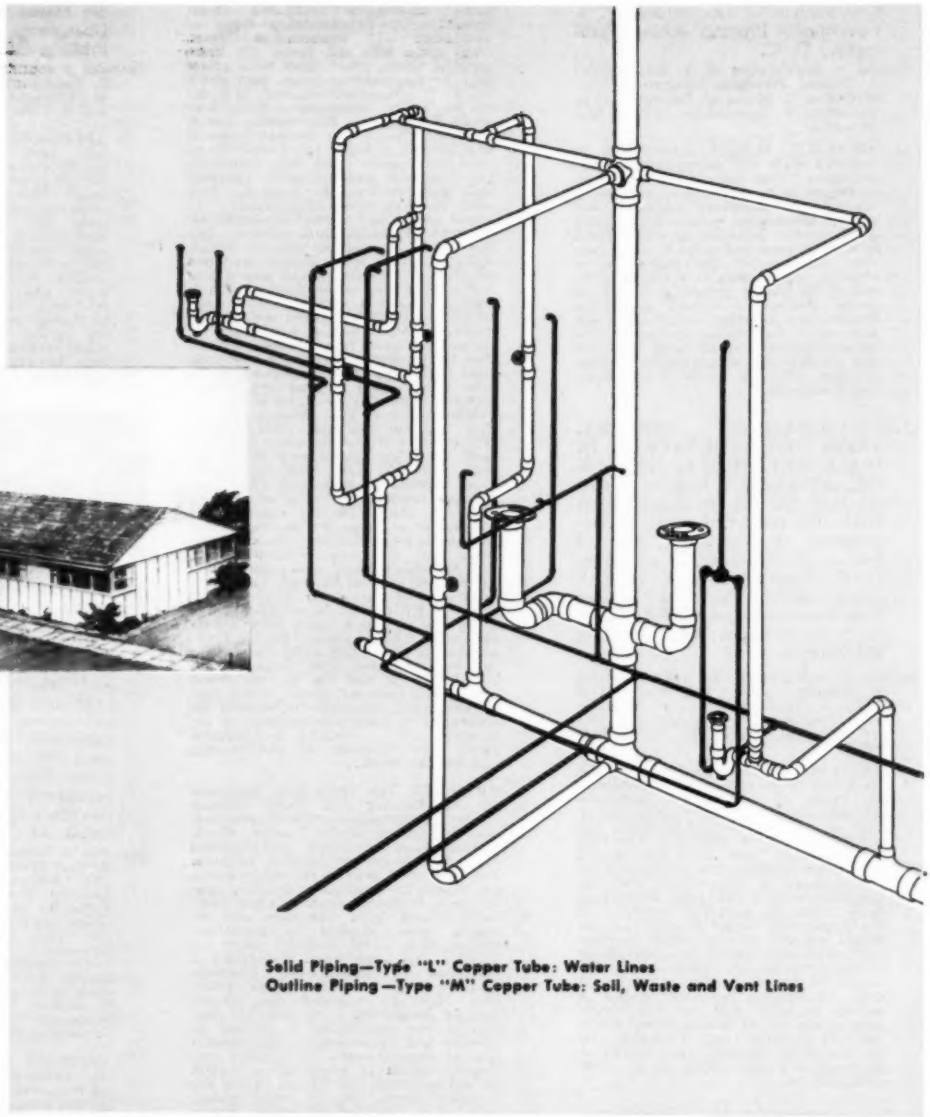
(221) TEMPERATURE DISTRIBUTION IN A TEST BUNGALOW WITH VARIOUS HEATING DEVICES by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 108; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 28, 1947.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office Washington, D. C.

Includes: 1. Introduction; 2. Test Equipment; 3. Test Specimens; (a) Electric heater; (b) Oil-burning warm-air furnace; (c) Jacketed gas-fired space heater; (d) Jacketed oil-fired space heater; (e) Single gas-burning gravity floor furnace; (f) Two gas-burning gravity floor furnaces; (g) Gas-burning floor furnace (with circulating fan); (h) Oil-burning gravity floor furnace; (i) Gravity hot-water heating system; 4. Test Procedure; 5. Vertical Temperature Differences; 6. Horizontal Temperature Differences; 7. Discussion; and 8. References.

ABSTRACT. The temperature distributions attained with various types of heating devices or systems were determined in the test bungalow at the National Bureau of Standards. The heating appliances tested included a hot-water heating system, floor furnaces located in several different positions, space heaters with fans, and electric and oil-burning warm-air furnaces. Each heating device was observed under a variety of weather conditions. The conditions inside and the weather outside the laboratory were recorded for comparison. Vertical temperature differences were computed for 32° F outside on the assumption that such differences are proportional to the inside-outside temperature difference. Uniformity of temperature throughout houses is a tacitly accepted American ideal of heating. Probably it is never attained in practice, and departures from it depend upon the design and construction of the house and upon the characteristics of the heating system or devices used. Distribution of warmth in houses has usually been judged only qualitatively by individual engineers on the basis of personal experience or observation. Quantitative data have been limited almost entirely to laboratory tests on parts of the system. Tests described in this report were made for the purpose of obtaining such data on the temperature distribution in a house heated successively with each of several types of heating systems.

(222) MEASUREMENTS OF HEAT LOSSES FROM SLAB FLOORS by Richard S. Dill, William C. Robinson and Henry E. Robinson; Building Materials and Structures

Architect Walter T. Anicka's "ranch" house is ideal for small-lot, built-up urban areas. It is one of seven plans chosen by the 1953 American Builder Catalog Directory to provide builders with typical construction problems.



Solid Piping—Type "L" Copper Tube: Water Lines
Outline Piping—Type "M" Copper Tube: Soil, Waste and Vent Lines

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The schematic drawing above shows the plumbing layout for a ranch-type house designed by Walter T. Anicka. Hot and cold water lines are Type "L" ANACONDA Copper Tubes. Easily joined fittings are solder type. For the soil, waste and vent lines, Type "M" ANACONDA Copper Tubes and solder type drainage fittings are used. Where code permits a 3-in. stack, it will fit into a 4-in. stud partition, saving space and construction costs. All other drainage lines and back venting are 1¼ in., 1½ in. and 2 in.

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Report BMS 103; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 10, 1945.—21 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment; 3. Procedure and Observations; (a) Slab floors laid on the ground; (b) Floors laid over crawl spaces; (c) Temperature distribution; (d) Condensation on the test floors; and 4. Summary and Conclusions.

ABSTRACT. Four concrete floors laid on the ground and three concrete and one wood floor laid over crawl spaces were tested for heat transfer properties in a special structure provided for the purpose. It was found that the heat loss of the floors laid on the ground was decreased by insulating the edges; that the heat loss through the center of such floors is relatively small when the enclosing structure is continuously heated; that the edge loss for a wood floor laid over a crawl space is small; and that the edge loss for an insulated concrete floor laid over a crawl space was considerable. Observed ground temperatures at various depths, down to 13 ft. below the surface, are reported in the paper and some factors are suggested for estimating floor heat losses.

(223) AIR INFILTRATION THROUGH WINDOWS by Eugene F. Coleman and Roy H. Heald; Building Materials and Structures Report BMS 45; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 29, 1940.—21 pages; price: 10c Order copies from Superintendent of Documents U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Engineering Practice; (a) Heat-loss calculation; (b) Wind pressure and speed; (c) Selection of wind speed; 3. Test Equipment; (a) General description; (b) Meter timing equipment; (c) Test-panel construction; 4. Test Procedure and Results; (a) General; (b) Clearance correlations, double-hung wood windows; (c) Clearance correlations, light steel casements; (d) Correlation of infiltration and pressure; 5. Comparative Results; (a) Wood windows; (b) Steel casement windows; 6. Summary; and 7. Selected References.

ABSTRACT. Equipment for measuring the rate of infiltration of air through the clearance openings of windows and doors due to wind pressure has been developed at the National Bureau of Standards as part of the program of research on building materials and structures. By means of the equipment, tests were conducted on double-hung wood windows and light steel casements, types frequently specified for low-cost housing construction. Infiltration measurements were made for systematic sets of clearance conditions, and correlations between amount of clearance and infiltration are given. The results are summarized using a concise method for representing the relationship between air infiltration and test pressure. Relationships between average sash clearance and infiltration at the reference pressure of 0.2 in. of water are given, and a general type of relation between infiltration and pressure is suggested on the basis of the test results.

The heat losses from a building may be viewed as arising from two sources: (1) those in which the heat is transmitted through the materials comprising the walls, roof, and lower floor, thence by radiation, convection, and conduction to the outside; and (2) those in which the cold outside air enters the building by means of cracks around windows and doors, called infiltrative losses. In most cases the larger part of the total heat loss may be placed in the former classification, but a substantial part may also occur by infiltration. This report describes test equipment for measuring infiltration of air through windows and gives the results of measurements to determine infiltration rates for several types of windows, with emphasis on windows suitable for low-cost house construction.

(224) "APPLICATION OF THE FLOOR FURNACE IN THE HEATING OF SMALL HOUSES" by Robert K. Thulman; in (H.H.F.A.) *Technical Bulletin No. 10*, issued May-July 1949, pages 1-9; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 20c. This article *alone* is available for 15c as H.H.F.A. Technical Reprint No. 9. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. It is the purpose of this article to explain the fundamental principle of the floor furnace and to describe its application to the heating of small houses. The text is illustrated with 16 figures.

(225) "PERFORMANCE OF MODULAR CLAY FLUE LININGS" by Robert K. Thulman; in (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 11-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Flue Areas; 3. Liner Sizes; 4. Safety; and 5. Conclusion.

ABSTRACT: HHFA Technical Paper No. 13, "Performance of Masonry Chimneys for Houses"—Included in this reading list as item (624)—reports the results of tests on a number of masonry chimneys at the National Bureau of Standards. The tests on tile-lined chimneys were made on specimens lined with conventional sizes of tile lining. Since the tests were carried out, the manufacturers of tile lining have developed standardized sizes which fit into the general plan of modular coordination. The American Standards Association has published these standardized modular sizes in A 62.4-1947 "American Standard Sizes of Clay Flue Linings," and some manufacturers have set up their equipment to produce and market them. This paper recommends that modular linings be accepted when their use in place of their counterpart nonmodular sizes is proposed. It also recommends that the modular 8-by-8-inch liner be accepted for use with lower capacity heating devices with input rates under 150,000 B.t.u. per hour.

(226) EFFECT OF SOOT ON THE RATING OF AN OIL-FIRED HEATING BOILER by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 54; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 18, 1940.—4 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Specimen and Equipment; 3. Test Procedure; 4. Results; and 5. Discussion of Results.

ABSTRACT. It is shown that the rating of a boiler, obtained by a test method based on constant flue-gas temperature, can be seriously affected by soot on the heating surfaces, although the soot may be too slight in amount to affect greatly either the capacity or the efficiency at a constant firing rate. At constant firing rate the soot has a large effect on the flue-gas temperature. This factor should be considered in the adjustment or testing of heating boilers or furnaces on the basis of constant flue-gas temperature and in the design of chimneys. Some assurance is offered to users of heating boilers and furnaces that an increased flue-gas temperature due to soot deposition does not necessarily signify a great decrease in capacity or efficiency. Chimneys and smoke pipe should be able to withstand the relatively high temperatures that may occur if there is an extraordinary amount of soot deposited on heating surfaces during some period of improper combustion.

(e) Plumbing Design

(241) METHODS OF ESTIMATING LOADS IN PLUMBING SYSTEMS by Roy B. Hunter; Building Materials and Structures Report BMS 65; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 16, 1940.—21 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Purpose; 3. Definitions and Symbols; 4. Basis of Selection of Pipe Sizes; 5. Character of Flow in Plumbing Systems; (a) Cases of loading; 6. Statement of the Problem; 7. Development of the Probability Function; 8. Interpretation of the Probability Function; 9. Proposed Uses of the Probability Function for Making Load Estimates; (a) Pertinent information obtainable from the probability function; (b) Values of t, T, r, and q; (c) Presentation of probability data; (d) Derivation of fixture weights (fixture units); (e) Relative load weights for different conditions of service; (f) Application of load chart and weight table; 10. Adequacy of the Method; 11. Estimates of Sewage Loads; 12. Discussion; and 13. References.

ABSTRACT. This report describes a method of estimating the demand and sewage loads for which provision should be made in designing plumbing systems in order that the service may be satisfactory. The characteristics of flow through a plumbing system and of the operation of supply valves and plumbing fixtures are described, and their influence on the method of estimating the load to be expected is discussed. The relative load-producing values of different kinds of commonly used plumbing fixtures are analyzed, and a table is developed giving relative load weights in terms of a load factor called the "fixture unit." An estimate curve developed by means of the probability function is given, and its use in conjunction with the table of fixture units is illustrated.

(242) CAPACITIES OF PLUMBING STACKS IN BUILDINGS by Robert S. Wyly and Herbert N. Eaton; Building Materials and Structures Report BMS 132; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 28, 1952.—28 pages; price: 20c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Previous Research on Stack Capacities; 3. Summary of Attempts to Define Stack Capacity; 4. The Problem of Stack Capacity; 5. Terminal Velocities in Stacks; 6. Terminal Lengths in Stacks; 7. Tests on Stacks and Drains; 8. Analysis of Conditions at the Stack Fitting where a Horizontal Drain Empties into a Stack at an Intermediate Floor of a Multistory Building; 9. Summary; 10. Application of the Results of the Investigation; 11. Conclusions; 12. Further Investigation; 13. References; and 14. Appendix. Evaluation of the Sand Roughness Coefficient, k.

ABSTRACT. This report gives the results of the first phase of a theoretical and experimental investigation of the capacities of plumbing drainage stacks in buildings. Because of the complexity of the problem and the wide variety of conditions that are encountered in providing sanitary drainage for buildings, no satisfactory means of determining the sizes of pipes required in the drainage system of a particular building has ever been developed. The present investigation was intended to solve one of the problems involved in determining the capacity of

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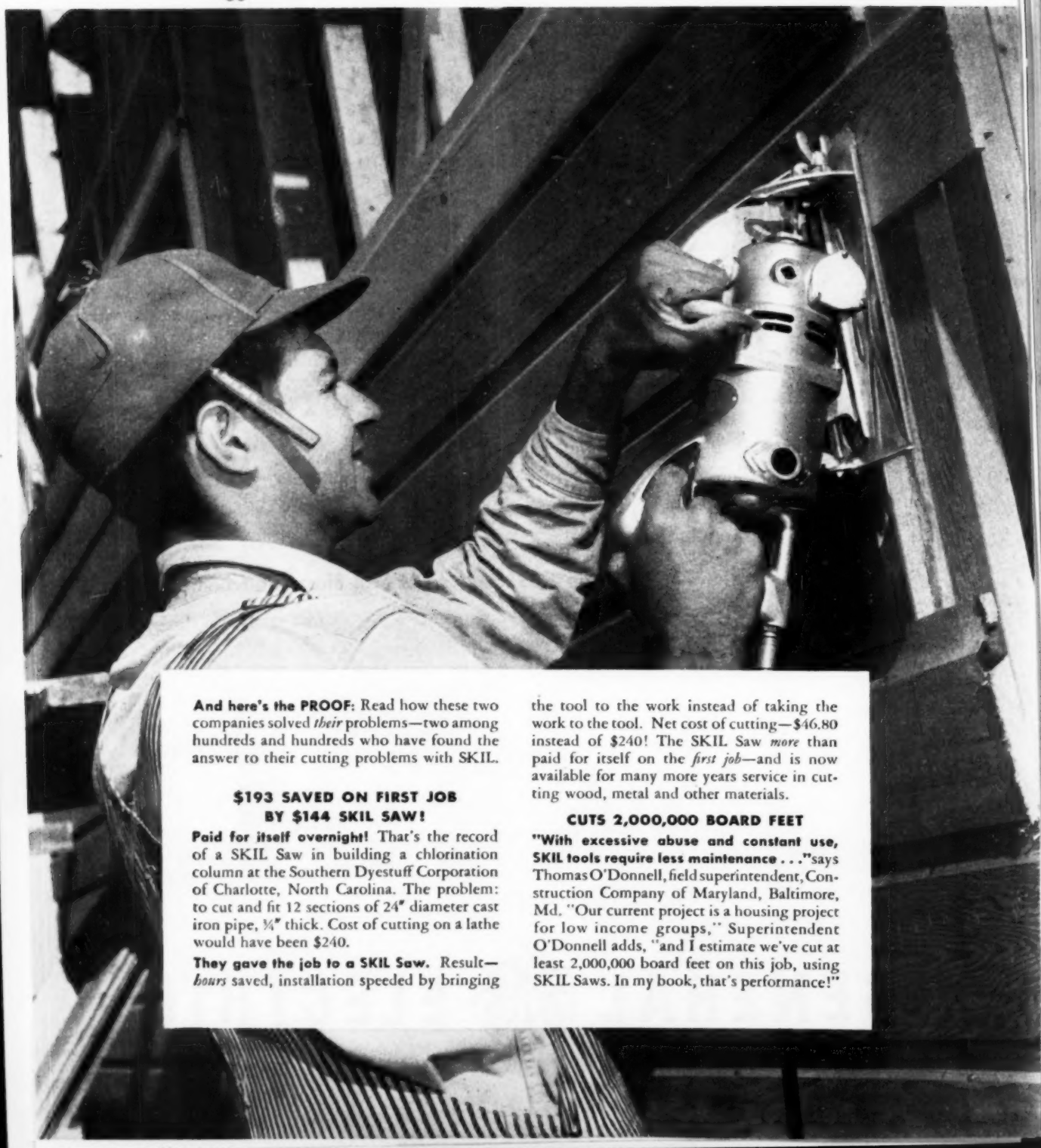

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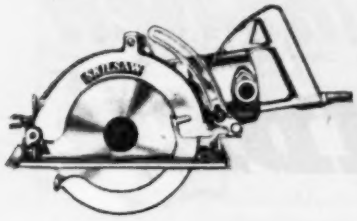

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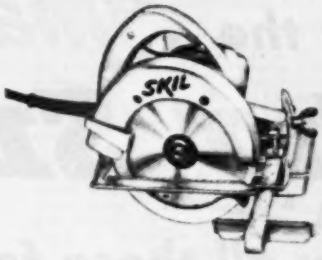

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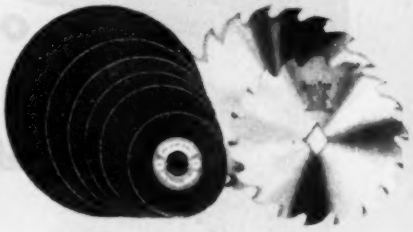

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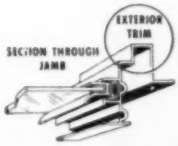

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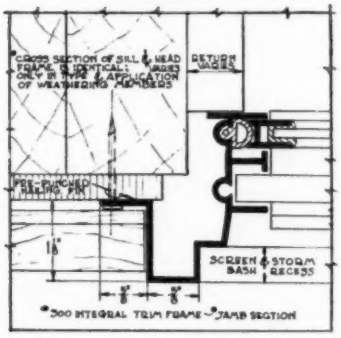

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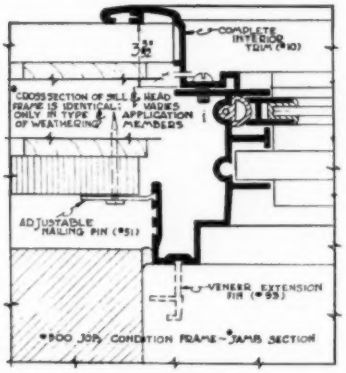

100% versatile. Exterior trim (casing) is integral with window frame; contains continuous perimeter dovetails to accept simple installation fins (#51, #52 or #53) for wood frame or masonry construction. Simple vertical mulls. Jambs pre-drilled for positive screwing to rabbeted wood bucks. #51 Nailing Fin (pre-punched) provides six adjustments; one of three side dovetails chosen; offset in fin leg reversible before sliding fin into dovetail. #52 Masonry Block Fin (not shown) centers window frame in block slots. #53 Veneer Extension Fin provides wide brick mould when greater than 1" finger space required. #10 Interior Complete Trim used in wood frame construction in conjunction with #51 Nailing Fin; a complete package fitting any through-wall thickness from 4⅜" to 5⅜" regardless of thickness of exterior sheathing and thickness of interior wall materials. Infinite adjustment. #20 Interior Cove Trim (not shown) used when frame is installed in block construction with #52 Masonry Block Fin and interior masonry left exposed; #20 Trim also applicable for other types of wall construction.

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a vertical drainage stack, namely, the pressures that are produced in a horizontal drain by the interference of the flow down the stack from higher levels with the flow from a horizontal drain into the stack at some intermediate level. This was accomplished by developing an equation for the relation between rate of flow down the stack, rate of flow from the branch, pneumatic pressures in the stack and in the branch at the branch level under consideration, the diameters of the stack and the branch, and the backpressure produced in the branch. With the aid of experiment, the unknown quantities in the equation were determined, and the equation can be used to predict this backpressure for any given conditions when a sanitary tee stack fitting is used to connect the branch to the stack. The research forming the basis of this report was undertaken for the Housing and Home Finance Agency as part of the research program of that Agency under its statutory authority.

(243) FIXTURE UNIT RATINGS AS USED IN PLUMBING SYSTEM DESIGN by Herbert N. Eaton and John L. French, both of the National Bureau of Standards; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1951, as "Housing Research Paper No. 15."—18 pages, NOTE: Despite its number (15) this is the *first* in the series of H.H.F.A. "Housing Research Papers." The 14 preceding papers were known as "Technical Papers" and dealt with technical problems only; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Derivation of the Terms; 3. The Application of the Theory of Probability to the Determination of the Probable Loads Imposed on Building Plumbing Systems; (a) General considerations; (b) Application of the theory to a simple system; (c) Mixed systems; (d) Loadings contributed by other fixtures; 4. Variation of the Rate of Flow Corresponding to One Fixture Unit With the Number of Fixtures on the System.

ABSTRACT. A report explaining the use of the terms "fixture unit" and "fixture unit rating" in conjunction with the theory of probability to determine demand flow for the design of water piping in the plumbing systems of large buildings. Prepared by two hydraulic engineers of the National Bureau of Standards. Modification of some of the factors would permit application of the method described here to determine design loads for drainage systems. This report is based on research sponsored by the Housing and Home Finance Agency in collaboration with the U. S. Department of Commerce, National Bureau of Standards. The H.H.F.A. staff technician on the project was Fred W. McGhan. NOTE: A condensation of this paper appears in H.H.F.A. Technical Bulletin No. 16 entitled "Water Flow Rates in Piping" for which see item (162) of the present reading list.

(244) PLUMBING FIXTURE ARRANGEMENT (Construction Aid 1)—Prepared by the HHFA Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., —June 1952.—18 pages.

Includes a study of: 1. General Considerations; 2. Room Orientation; (a) Relation to plumbing services; (b) Backing-up of rooms; (c) Vertical alignment; 3. Fixture Arrangements; (a) Fixtures in line; (b) Vertical proximity; 4. Apparatus Location; (a) Water heaters; (b) Clothes washers; (c) Dishwashers; 5. Other Considerations; 6. Conclusions; (a) Material savings; (b) Cost savings; (c) Codes and standards.

ABSTRACT. A guide to simplified design of plumbing fixture arrangement to conserve critical metals and manpower, and reduce installation and operational costs. The publication presents to the housing designer those planning ideas which should be considered for an economical and effective plumbing system.

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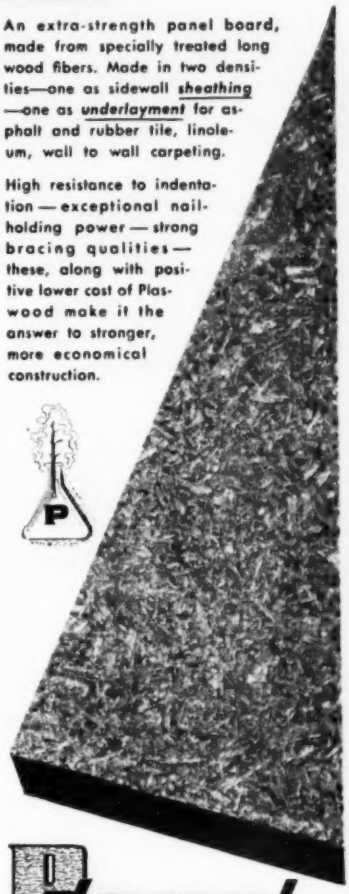

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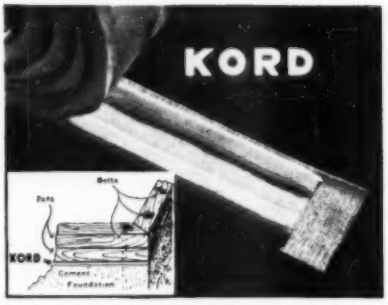

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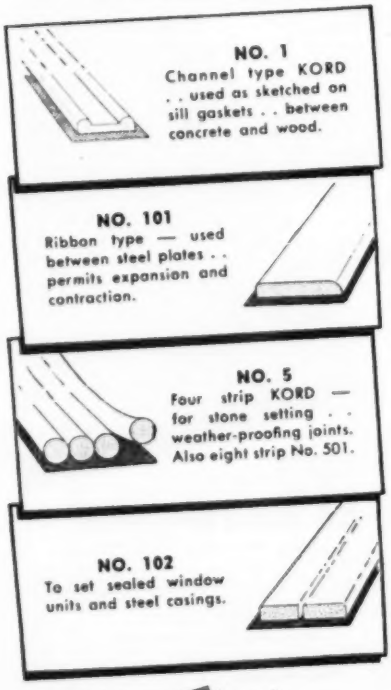

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(f) Modular Coordination

(261) MODULAR COORDINATION. WHAT IS IT? HOW DOES IT WORK? WILL IT HELP REDUCE HOUSING COSTS?—Prepared by HHFA's Division of Standardized Building Codes and Materials; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.—July 1949.—20 pages; price: 15*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. A booklet written in simple language and with outline drawings describing in popular terms the principles of modular coordination for the layman and as an introduction to the subject. It sets forth to the consumer of housing the advantages, in the form of lower cost, that accumulate from the cost savings to producer, dealer, and builder, and describes briefly the history of the development of modular coordination and how it is used by the architect in design and the builder in construction.

(262) THE MODULAR METHOD IN DWELLING DESIGN—A compilation by various members of HHFA's Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, May 1951.—54 pages; price: 30*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Coordination of Building and Material Dimensions; 2. Building Coordination: The Architect's Function; 3. Modular Coordination in Drafting Practice; 4. Masonry Construction; (a) Selection of controlling parts; (b) Preparation of assembly details; (c) Wall sections in plan; (d) Vertical wall sections; (e) Wall opening details; (f) Correlation of details on working drawings; (g) Elevation; 5. Wood-Frame Construction; 6. Appendix A: Theory of Modular Coordination; (a) Basis for coordination; (b) Method of coordination; (c) Sizes of modular products; (d) Modular details; (e) Correlation of building lay-out; (f) 4" flexibility requirement; (i) Building structure lay-out; (ii) Parts of building structure; (iii) Fittings to building structure; (g) grid positions; (i) General; (ii) Walls and partitions; (iii) Wall openings; (iv) Floors; (h) Modular masonry; (i) Masonry units; (ii) Standard joint thickness; (iii) Masonry walls; (iv) Referencing to the grid; (*i*) Woodframe construction; (i) standard lumber sizes; (ii) Grid locations; (iii) Individual studs; (iv) 2" x 4" stud wall corners; (v) 2" x 4" stud walls; (vi) Floor lay-out; (vii) Rough openings; (viii) Rafters and ceiling joists; 7. Appendix B: Typical Assembly Details; (a) Double-hung window details; (b) Coordination of floors with masonry walls; (c) Wood joist framing; (d) Wood joists on metal hangers; (e) Open-web steel joists; (f) Concrete slab on grade; (g) Reinforced concrete slab; (h) Steel casement windows with steel surround; (i) Steel casement windows with wood surround; 8. Challenge to the Architect; and 9. Selected References.

ABSTRACT. An explanation of how the principles of modular coordination, developed by American Standards Association Project A62, are applied to the preparation of drawings for building construction. Application of modular principles is illustrated by two example structures: an apartment house of masonry construction and a single-family detached house of wood-frame construction. The booklet explains how the modular method simplifies the dimensioning of small-scale drawings; shows step-by-step development of assembly details; and tells how plans and details are correlated. An appendix contains an explanation of the basis of modular coordination and the principles essential to use of the method by architects, engineers, and designers. Typical modular details of floors, walls, and windows, in addition to those of the sample structures, are included to show how the modular method is adapted to different types of construction. The booklet is one of a series dealing with standardization of dimensions and assembly methods in building construction prepared by the Housing and Home Finance Agency, Division of Housing Research. Assistance in the preparation of this booklet was given by the American Institute of Architects, The Producers' Council, Inc., and the National Association of Home Builders, co-sponsors of American Standards Association Project A62; by the Modular Service Association (Myron W. Adams, Executive Secretary); by the American Standards Association, Inc.; by the late Fred Heath; by the late Albert Farwell Bemis; by James T. Lendrum; and by A. Gordon Lorimer. ASA Project A62 committees were organized in 1938. Their findings were published in 1946 in the *A62 Guide for Modular Coordination* by Myron W. Adams and Prentice Bradley, from which the present booklet has drawn extensively.

(263) "APPLICATION OF LARGE MODULES TO INDUSTRIALIZED HOUSING" by Bernard Wagner; in *Housing Research*, October 1952, pages 35–40; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Prefabricated House; 2. The Industrialized House; 3. Economies of Larger Modules; 4. The Large Planning Module; 5. Standard Assemblies; 6. Suitable Materials; and 7. The Room Module.

ABSTRACT. Ready-made houses need not be monotonous. In fact, the more we standardize—and thus save money—on building parts and components, the more we find that there are innumerable ways of putting these parts and components together. It may sound like a paradox but we can retain design flexibility through standardization. This article seeks to demonstrate that the use of large-size modules—such as 8 or 12 feet—is practical and promises economy for industrialized housing.

(264) "REPORT ON SURVEY OF FACTORS HINDERING MORE GENERAL ACCEPTANCE OF THE MODULAR PRINCIPLE IN DESIGN AND CONSTRUCTION" by the Executive Committee of the Building Research Advisory Board; in (H.H.F.A.) *Technical Bulletin No. 11*, issued September-November 1949, pages 15–18; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. On January 19, 1949, the National Academy of Sciences entered into a contract with the Housing and Home Finance Agency to undertake investigations and make reports with respect to certain technical problems. One was the survey described in this respect. Performance of the work was assigned to the Building Research Advisory Board of the National Research Council's Division of Engineering and Industrial Research. The report is signed by the following members of the Executive Committee of the Building Research Advisory Board: Frank B. Jewett, C. F. Bassweiler, Frederick M. Feiker, George M. Hunt, Harry C. Plummer, W. E. Reynolds, Tyler S. Rogers, William H. Scheick, and Walter A. Taylor.

(265) "COORDINATION IN BUILDING CONSTRUCTION" by Bernard Wagner; in (H.H.F.A.) *Technical Bulletin No. 11*, issued Sep-

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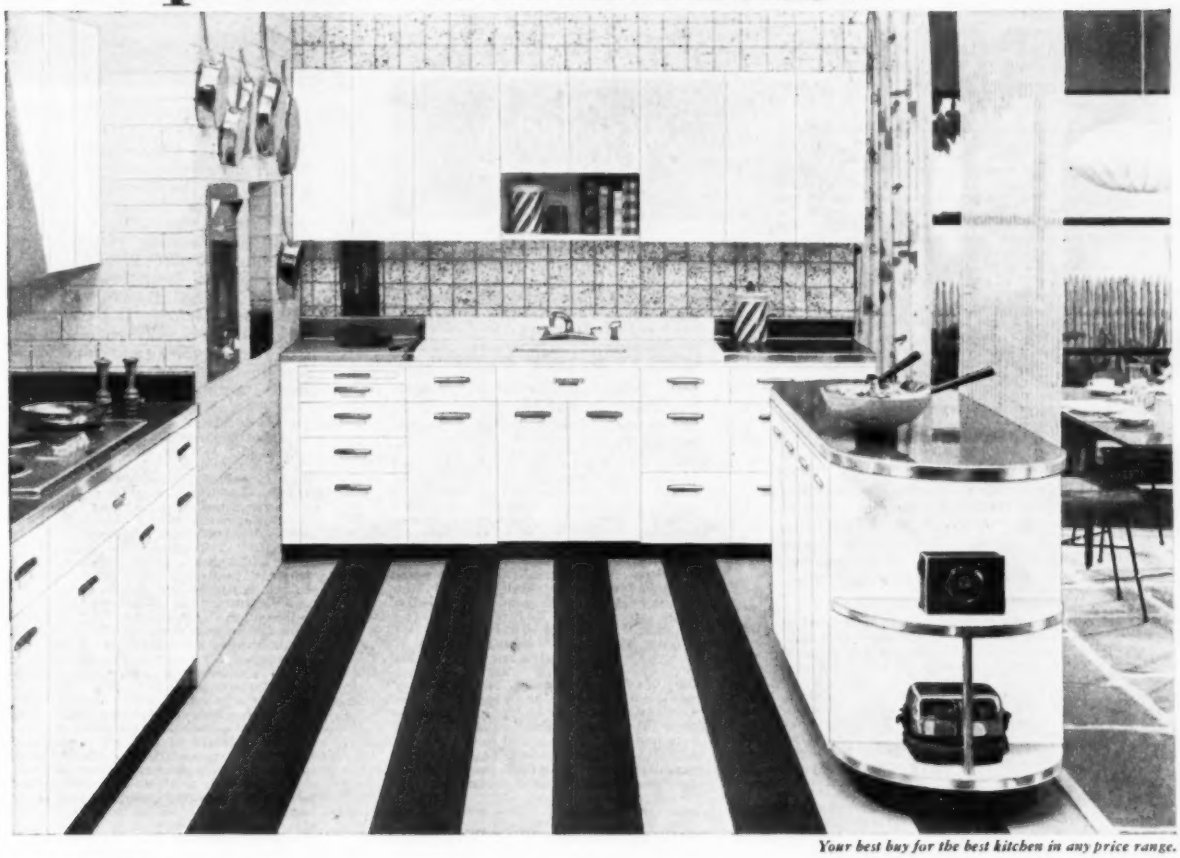

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tember-November 1949, pages 1-6; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. Germany has had standardization of building materials (D.I.N. norms) since the end of World War I, but not modular coordination. In 1942, Ernst Neufert, a German architect, made the first comprehensive attempt to coordinate this standardization into a modular system as far as possible, and to propose new standards for certain building materials or products which do not fit the modular system. His work is of interest and value to technicians in this country insofar as he has tried to solve problems similar to ours with results that are sometimes identical, and sometimes contrary to ours. This article is a review of a German study on modular coordination and standardization in the building industry.

(266) "TECHNIQUES FOR CONSERVATION IN HOME CONSTRUCTION" by Joseph H. Orendorff; in *Housing Research*, Fall 1951, pages 1-8; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Conservation in Plumbing for Homes; 3. Conservation in Framing Practices; 4. Conservation Through Modular Coordination; and 5. Illustrative Diagrams.

ABSTRACT. Current HHFA research to help conserve home building materials and manpower during the emergency covers a wide range of technological investigation in dwelling space and room arrangement, structural components of houses, materials of home structure, housing sanitation, heating, and in other fields. Division of Housing Research projects aimed at conservation include both those being done directly by the Division staff, and others undertaken by contract with Government agencies and nonprofit organizations with exceptional laboratory facilities. The objective is to help the housing industry build the largest possible amount of needed housing with the least possible drain on materials and manpower needed for defense. This article discusses the principle of conservation embodied in HHFA's technological research and sketches examples of current projects.

(g) Controlling Infestation

(281) "RATPROOF CONSTRUCTION OF NEW DWELLINGS" by E. J. Herringer; in *Technical Bulletin No. 14*, pages 23-27; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Materials and Methods of Construction; (a) Foundations; (b) Crawl spaces; (c) Foundation vents; (d) Outside basement steps; (e) Coal chutes; (f) Ratproofing under buildings erected on piers; (g) Elevator shafts; (h) Floor drain plates; (i) Service wires; (j) Junction of exterior walls and floors; (k) Exterior doors; (l) Basement and first-story windows; (m) Second-story and higher windows; (n) Exhaust fan openings; (o) Mail slots; (p) Junction of roof and exterior walls; (q) Parapet walls; (r) Skylights; (s) Chimneys; (t) Water and sewer vent stacks; (u) Spaces between attic floors and roofs; (v) Interior walls; (w) Openings for service pipes; (x) Ventilation systems; (y) Refrigerators; 2. Recommendations for Aiding Eradication Through Ratproof Construction; and 3. References.

ABSTRACT. This report describes ratproof construction which, with proper maintenance, is the most economical and effective means of controlling rat prevalence in a structure. This involves interior and exterior ratproofing as well as the elimination of interior structural harborages. In new construction this requires elimination of all nonessential openings and the ratproofing of all essential openings.

(h) Specification Writing

(291) A METHOD FOR DEVELOPING SPECIFICATIONS FOR BUILDING CONSTRUCTION—Report of Subcommittee on Specifications of the Central Housing Committee on Research, Design, and Construction;—Albert G. Bear, Chairman; Building Materials and Structures Report BMS 87; published by U. S. Department of Commerce, National Bureau of Standards Washington, D. C.—Issued July 15, 1942.—23 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Development of basic specification forms; (b) Writing specifications, using model basic form; 2. Part 1: Model Basic Specifications, Masonry; 3. Part 2: Typical Specifications, Masonry; 4. Part 3: Streamlined Specifications, Masonry; (a) Specification writer's notes; (b) Rewritten specifications, masonry.

ABSTRACT. To meet the demand for short and uniform specifications for Government building construction, and in an attempt to reduce the time and labor now consumed in their preparation, a representative committee of Federal agencies made a study of current specification-writing routine. In its report, this Committee advocates a directive method which, under proper supervision, should condense specifications, bring about important economies, and increase efficiency. Fundamental principles that have proved of value over a period of years have been retained and are coordinated in a basic specification which promotes uniformity and permits choice of those materials and methods of construction best suited to the specific project in hand. Application of the method is made clear by three examples: a model basic specification illustrating the procedure outlined, a typical contemporary specification, and the typical specification rewritten in accordance with the method advocated.

PART IV

BUILDING MATERIALS, EQUIPMENT, and METHODS of CONSTRUCTION

(a) Special Constructions for Walls, Partitions, Floors and Roofs

(301) "EXPECTED RESISTANCE TO RACKING OF DOUGLAS FIR PLYWOOD-SHEATHED WALLS" by William A. Russell; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 11-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Specimen Details; 3. Test Procedure; 4. Observations; 5. Discussion; 6. Interpretation of Test Data; and 7. Recommendations.

ABSTRACT. The manufacturing process used in the production of plywood generates a large quantity of veneer that, because of knotholes and other small surface defects, is unsuitable for the face grain of plywood where appearance rather than structural soundness is the governing factor. A large amount of these lower-grade veneers are well-suited to the manufacture of sheathing which permits economical use of veneers that otherwise would be wasted. This article combines information developed in HHFA-sponsored research projects and data developed from previous tests of plywood sheathed constructions and also presents the data graphically.

(302) MOISTURE AND THE DURABILITY OF WOOD-FRAME WALLS by R. C. Reichel; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., September 1951, as "Housing Research Paper No. 16."—20 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Summary; 3. The Test Shell; 4. Conditions of Exposure; 5. Instrumentation and Control; 6. Observations; and 7. Results.

ABSTRACT. A report covering the observations made and data collected during the first 6 months of operation of a long-range investigation to evaluate the relationship of moisture to the durability of wood-frame walls. Twenty-two different wood-frame wall assemblies have been erected in a test structure, utilizing materials and assemblies frequently used in dwelling construction. These walls have been exposed to year-round weather conditions on the exterior, and on the interior to temperature and humidity representative of actual conditions in dwellings in the area of central Pennsylvania. The report is based upon research sponsored by the Housing and Home Finance Agency at The Pennsylvania State College, State College, Pa., where test operations were conducted by Professor E. R. Queer and Professor F. A. Joy.

The tests commenced in December 1949 under the direction of Ralph R. Britton, of H.H.F.A.'s Division of Housing Research. Assistance was also provided by staff personnel of the National Bureau of Standards of the U. S. Department of Commerce, the Division of Forest Pathology of the U. S. Department of Agriculture, and of various trade associations whose products were used.

(303) PHYSICAL PROPERTIES AND FABRICATION DETAILS OF EXPERIMENTAL HONEYCOMB-CORE SANDWICH HOUSE PANELS—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following members of the laboratory staff were in charge of test procedures and analysis of the results here reported: L. O. Anderson, B. G. Heebink, E. W. Kuenzi, and S. H. Munson (engineers), and R. J. Seidl (chemical engineer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luxford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director and Howard J. Wharton, an assistant in technical and administrative research management; published by the Housing and Home Finance Agency, Technical Staff, Washington, D. C., in February 1948, as its "Technical Paper No. 7"—25 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction of Experimental Sandwich Unit; (a) General description; (i) Foundation; (ii) Walls; (iii) Roof; (iv) Floors; (v) Exterior Painting; (vi) Preservative Treatment; (b) Sandwich panel manufacture; (i) Fabrication of cores; (ii) Physical properties of the untreated and resin-treated paper used for honeycomb cores; (iii) Type XF core; (iv) Type PN core; (v) Sawing of cores; (vi) Fabrication of facings; (vii) Assembly of panels; (viii) Sizing and routing of panels; (ix) Window and door frames; (x) Insulated splines; (xi) Miscellaneous parts; (c) Erection of unit; 3. Suggested Plan for a Sandwich-Panel House; (a) Joint details; (i) Floors to foundation; (ii) Floors to walls; (iii) Wall panels; (iv) Wall to ceiling or roof; (v) Treatment o. panel joints; (vi) Window and door framing; 4. Appendix; (a) Bending tests of [illegible]; (b) Accelerated aging tests.

ABSTRACT. A report covering developmental work, test data on honeycomb-core panels, methods of fabrication and erection of experimental sandwich panels for an outdoor test structure on the grounds of the Forest Products Laboratory at Madison, Wisconsin.

(304) STRUCTURAL PROPERTIES OF SIX MASONRY WALL CONSTRUCTIONS by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 5; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 21, 1938.—31 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; 4. Materials; (a) Brick; (i) High-strength brick; (ii) Medium-strength brick; (b) Tile; (c) Block; (d) Mortar; (i) Cement; (ii) Lime; (iii) Sand; (iv) Mix; 5. Fabrication Data; 6. Properties of Test Walls (similar data for each of six walls:); (a) Description; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Racking load; (f) Impact load; 7. Comments; and 8. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Masonry Construction Section of the National Bureau of Standards built specimens representing six masonry wall constructions as follows: High-strength brick, cement mortar, excellent workmanship; medium-strength brick, cement-lime mortar, commercial workmanship; medium-strength brick, cement-lime mortar, excellent workmanship; structural clay tile on end, cement-lime mortar, excellent workmanship; structural clay tile on side, cement-lime mortar, excellent workmanship; and stone-concrete block, cement-lime mortar, excellent workmanship. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For most of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table. The results of these tests show the ability of these constructions to resist compressive strength load far greater than those likely to be encountered in actual house construction. They also show how the compressive strength and other properties may be influenced by changes in materials and workmanship, and provide data which may be compared with service behavior for estimating the limiting strength for acceptable performance.

(305) WATER PERMEABILITY OF MASONRY WALLS by Cyrus C. Fishburn, David Watstein, and Douglas E. Parsons; Building Materials and Structures Report BMS 7; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 18, 1938.—35 pages; Out of print. See your librarian.

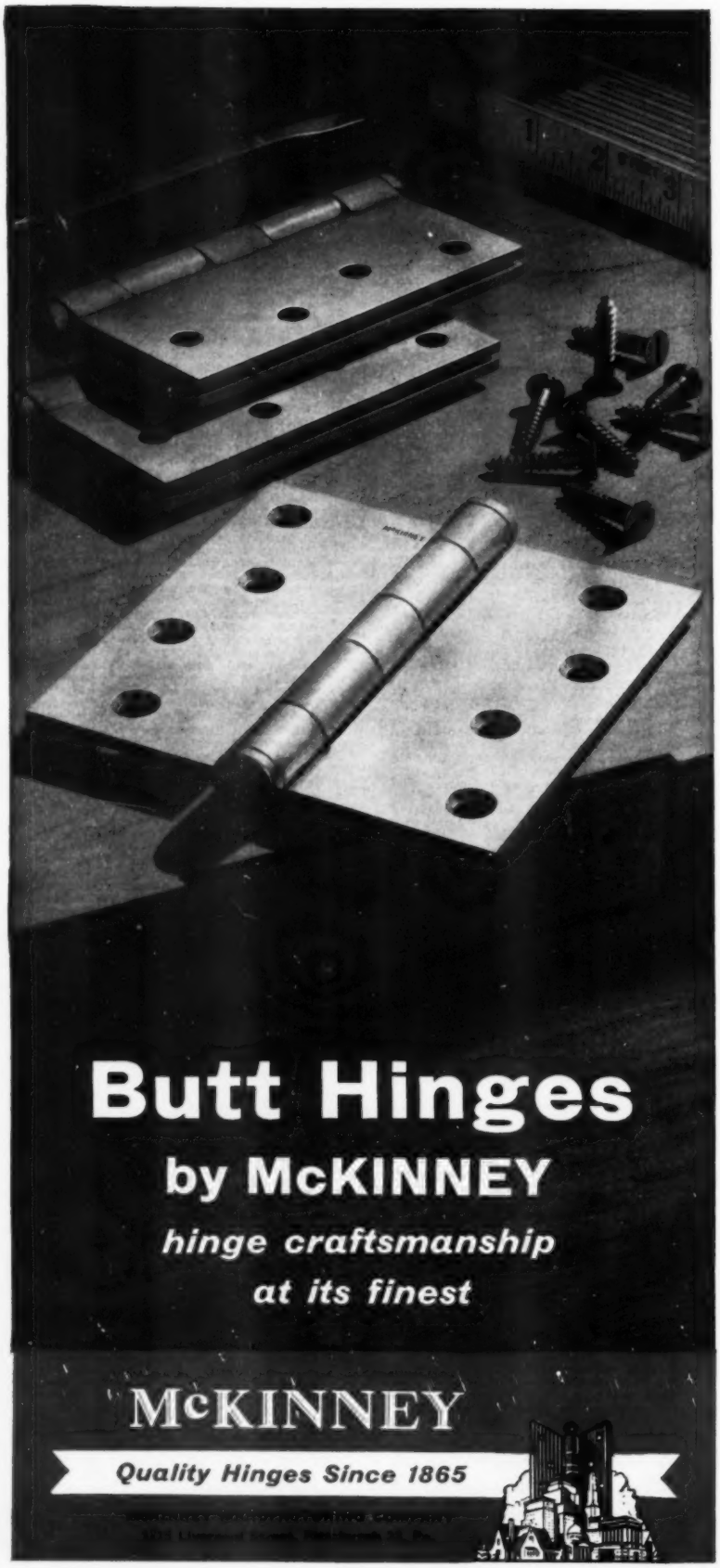
Includes a consideration of: 1. Introduction; 2. Scope of Investigation; 3. Masonry Walls; (a) Materials; (i) Bricks; (ii) Structural clay tiles and hollow concrete units; (iii) Mortars; (iv) Stucco; (b) Types and designations of walls; (c) Methods of construction; (d) Workmanship; (e) Aging; 4. Method of Testing Permeability of Walls; (a) Capillarity test; (b) Heavy-rain test; (c) Light-rain test; 5. Rating of Performance; (a) Observations; (i) Time required for penetration; (ii) Rate of leakage; (iii) Appearance of wall during and after test; (b) Arbitrary ratings; 6. Performance of Walls; (a) Consistence of results; (b) Effect of variation in methods of testing; (i) Comparison of capillarity and heavy-rain tests; (ii) Comparison of light- and heavy-rain tests. 7. Effect of Kinds of Workmanship or Materials Used in Walls of Brick Masonry; (a) Comparison of workmanship; (b) Effect of wall thickness and kind of brick; (c) Effect of absorptive backing; (d) Comparison of mortars; (i) Effect of varying percentages of lime and cement in mortars of high water retentivity; (ii) Effect of using a mortar of low water retentivity; (e) Effect of a brick suction; (f) Effect of mortar parging on brick facing; (g) Effect of using blind headers; (h) Effect of a stone belt course; 8. Effect of Workmanship and Materials in Walls Containing Hollow Masonry Building Units; (a) Walls with structural clay tile backing; (b) Walls with backing of hollow concrete units; (c) Stucco facing on structural clay tile; 9. Surface Waterproofing Treatments; (a) Repointing of face joints; (b) Paraffin and tung-oil solution; (c) Joint filling; (i) Waxed joints; (ii) Grouted joints; (d) Special proprietary treatments; (e) Aluminum-stearate solution; (f) Linseed-oil solution; (g) Molten paraffin; (h) Paints; (i) Oil paint; (ii) Cement paint; 10. Summary; (a) Definitions; (b) Conclusions; 11. Appendix—Review of Previous Investigations; (a) Tests at Mellon Institute; (b) Tests at the National Bureau of Standards; (c) Tests of the Louisville Cement Company; (d) Tests of the Alton Brick Company; and (e) Tests of the Portland Cement Association.

ABSTRACT. Walls of brick, structural clay tile and hollow concrete unit masonry were tested under conditions resembling exposure to wind and rain and their resistance to the penetration of water determined. Five kinds of workmanship (method of filling joints), three kinds of brick, six kinds of structural clay tile, two kinds of hollow concrete units, and six different mortars were used in the construction of the walls. One group of 48 brick walls included specimens, both 8 and 12 inches thick, of three kinds of brick, four cement-lime mortars, and two classes of workmanship, in all possible combinations. The walls of structural clay tile were faced either with stucco or with brick of a single variety. Those of concrete units were faced either with the same brick or with cement paint. The effectiveness of several methods of "waterproofing" were compared by retesting some of the walls after they had been treated. The treatments for the walls included the filling of openings in the face joints with mortar, grout, or wax and the application to the exposed surfaces of colorless solutions or paints. Most of the walls were subjected to water penetration tests under two different conditions. Water was applied near the tops of the walls in a manner to produce a thin film of water over their exposed surfaces. In the "capillarity" test no pressure was applied to the exposed surface, the water penetrating under the forces of capillarity and gravity only. In the "heavy-rain" test a static air pressure of 10 pounds per square foot was maintained against the exposed face. The performances of the walls in the water penetration tests depended more upon the quality of the workmanship than upon any other factor. Walls of brick having the interior joints well filled with mortar usually gave excellent performances, whereas those with poorly filled joints leaked. Aids in obtaining walls resistant to moisture penetration were the use of mortars of medium or high water retentivity, the wetting of absorptive brick before use, and the application of a parging of mortar on the back of the facing wythe. The omission of two-thirds of the normal number of header brick, or the insertion of a limestone sill or belt course had no important effect on the permeability of the walls. On the average, walls with a brick facing and a backing of hollow masonry units were slightly less permeable than brick walls of equal thickness when the joints were not well filled. When the joints were well filled the performance of walls with hollow units was somewhat superior in the capillarity test but inferior in the heavy-rain test to that for otherwise similar all-brick walls. The performance of walls of structural clay tile faced with portland-cement stucco was somewhat better than the average for the walls of brick. The fillings of openings in the joints with mortar grout, or wax was effective in stopping leakage. Applications of colorless waterproofing solutions did not stop leakage through openings in the joints, but were effective in improving the performance of walls of absorptive brick when the openings in the joints had been sealed. Coatings of molten paraffin oil paint, and cement paint were effective in reducing moisture penetration.

(306) STRUCTURAL PROPERTIES OF THE INSULATED STEEL CONSTRUCTION COMPANY'S "FRAMELESS-STEEL" CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 9; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 28, 1938.—18 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description of four-foot and eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 5. Properties of the Partition (with similar sub-headings); 6. Properties of the Floor (with similar sub-headings); 7. Properties of the Roof (with similar sub-headings); 8. Additional Comments by Sponsor; and 9. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions the Insulated Steel Construction Co. submitted



30 specimens representing their "Frameless-Steel" constructions for walls, partitions, floors, and roofs. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partitions specimens to impact and concentrated loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three similar specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(307) STRUCTURAL PROPERTIES OF THE CURREN FABRIHOME CORPORATION'S "FABRIHOME" CONSTRUCTIONS FOR WALLS AND PARTITIONS by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 11; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 28, 1938. —14 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (c) Test frame; (b) Transverse load; (c) Concentrated load; (d) Impact load; 5. Properties of the Partition; (a) Sponsor's statement; (b) Transverse load; (c) Concentrated load; (d) Impact load; 6. Sponsor's comments.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Current Fabrihome Corporation submitted 18 specimens representing their "Fabrihome" constructions for walls and partitions. The specimens were subjected to transverse, concentrated, and impact loads. The loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(308) STRUCTURAL PROPERTIES OF "STEELOX" CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY STEEL BUILDINGS, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 12; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 1, 1939.—17 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; of four-foot and eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f, Racking load; 5. Properties of the Partition (with similar sub-headings); 6. Properties of the Floor (with similar sub-headings); 7. Properties of the Roof (with similar sub-headings); 8. Additional Comments by Sponsor; and 9. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, Steel Buildings, Inc. submitted 30 specimens representing their "Steelox" constructions for walls, partitions, floors and roofs. The wall specimens were subjected to compressive, transverse, concentrated impact, and racking loads; the partition speci-

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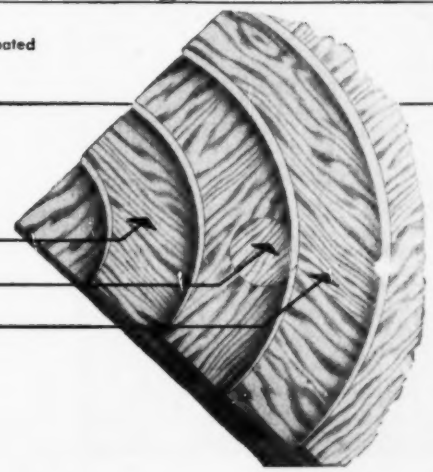

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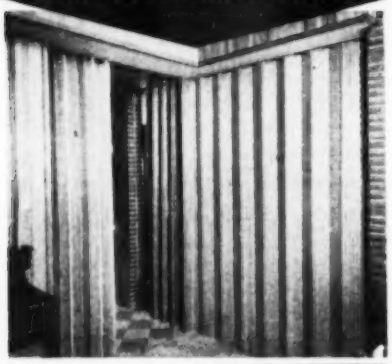

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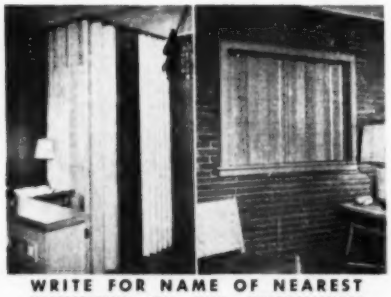

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mens to impact and concentrated loads; the floor specimens to transverse, concentrated and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(309a) SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS by V. L. Chrisler; Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 28, 1939.—31 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Location of Building; 3. Location of Rooms Within a Building; 4. Factors Which Control the Transmission of Sound Through Walls and Floors; 5. Homogeneous Walls; 6. Nonhomogeneous Walls; (a) Lath and plaster walls; (b) Masonry walls and floors; 7. Impact Noises and Methods of Isolating Them; 8. Effect of Openings and Methods of Computing Results; 9. Masking Effect; 10. Maximum Noise Levels Which Should Be Tolerated; 11. Panel Construction and Transmission Loss in Decibels; and 12. Literature References.

(309b) SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS by V. L. Chrisler; Supplement No. 1 to Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 20, 1940.—7 pages; price: 5¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

(309c) SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS by Albert London; Supplement No. 2 to Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 15, 1947.—15 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Supplements 1 and 2 report the results of sound-transmission measurements made on a number of additional types of construction since the issuance of the original report in March 1939.

ABSTRACT. Since about 1923 the National Bureau of Standards has made measurements on the sound-insulating values of different materials and types of construction. Many of the measurements were made in cooperation with manufacturers of building materials; others were made by the Bureau to advance knowledge of the sound insulating properties of representative types of construction. Although the funds available for the research program on building materials and structures with special reference to low-cost housing were insufficient (in 1939) to permit a new experimental program on sound insulation in view of more urgent needs, the results of the past experience of the Bureau are brought together in one place in Report BMS-17, so that the information may be available to architects and engineers. The report summarizes test data on the sound transmission of wall, partition, and floor panels and gives a general discussion of the principles of sound insulation. Attention is called to the desirability of constructing buildings in which quiet conditions are essential, in locations where the noise level is not high and of locating rooms intended to be especially quiet in parts of the building where there will be the least disturbance from the usual noises in the building. A general discussion is given of the factors which determine the transmission of sound through partitions. Impact noises and methods of insulating against them receive special mention. The importance of eliminating small openings, which may almost completely destroy the sound insulating value of a wall, is illustrated by examples. It is pointed out that the required sound insulation is less, the greater the normal noise level within the room. The results also show that a wall or floor which is approximately homogeneous must be excessively heavy to be a good sound insulator. If the wall or floor is built in layers which are loosely connected, the sound-insulating properties are greatly improved. Thus, method of construction is more important than nature of material.

(310) STRUCTURAL PROPERTIES OF "PRE-FAB" CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY THE HARNISCHFEGER CORPORATION by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 18; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 17, 1939.—20 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Three-foot four-inch wall specimens; (B) Six-foot eight-inch wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 5. Properties of Partition; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Impact load; (c) Concentrated load; 6. Properties of First Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 7. Properties of Second Floor (with sub-headings identical with those under 6); and 8. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Harnischfeger Corporation submitted 33 specimens representing their "Pre-Fab" constructions for walls, partitions, and floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to impact and concentrated loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested, the concentrated-load tests being made on undamaged portions of the specimens used for the transverse or impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(311) STRUCTURAL PROPERTIES OF "TWACHTMAN" CONSTRUCTIONS FOR WALLS AND FLOORS SPONSORED BY CONNECTICUT PRE-CAST BUILDINGS CORPORATION by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 20; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 17, 1939.—13 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

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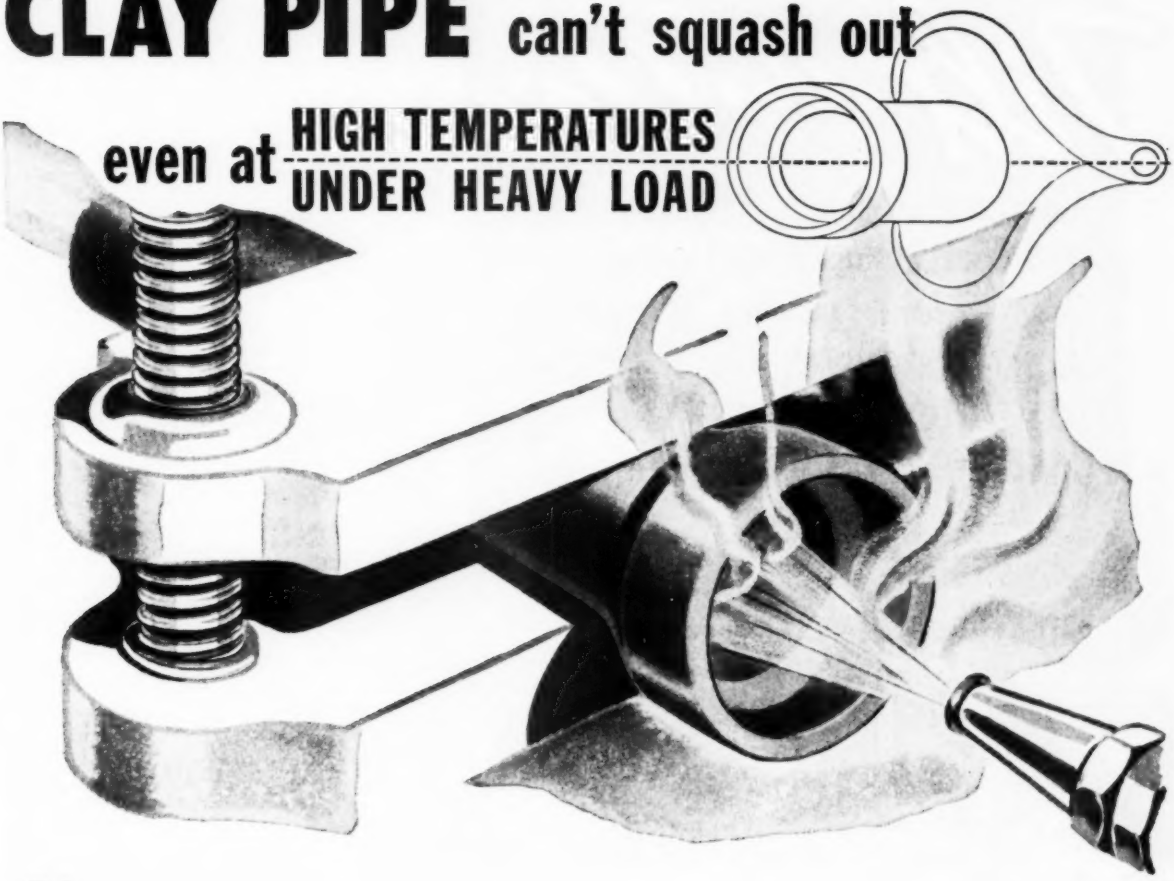

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ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions the Connecticut Pre-Cast Buildings Corporation submitted 24 specimens representing concrete constructions for walls and "Twachtman" precast hollow reinforced-floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(312) STRUCTURAL PROPERTIES OF A CONCRETE-BLOCK CAVITY-WALL CONSTRUCTION SPONSORED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 21; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 19, 1939.—10 pages; price; 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the National Concrete Masonry Association submitted 12 specimens representing a concrete-block cavity-wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table.

(313) STRUCTURAL PROPERTIES OF "DUN-TI-STONE" WALL CONSTRUCTION SPONSORED BY THE W. E. DUNN MANUFACTURING COMPANY by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 22; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 14, 1939.—11 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

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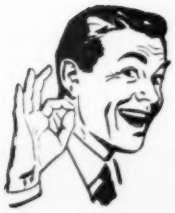

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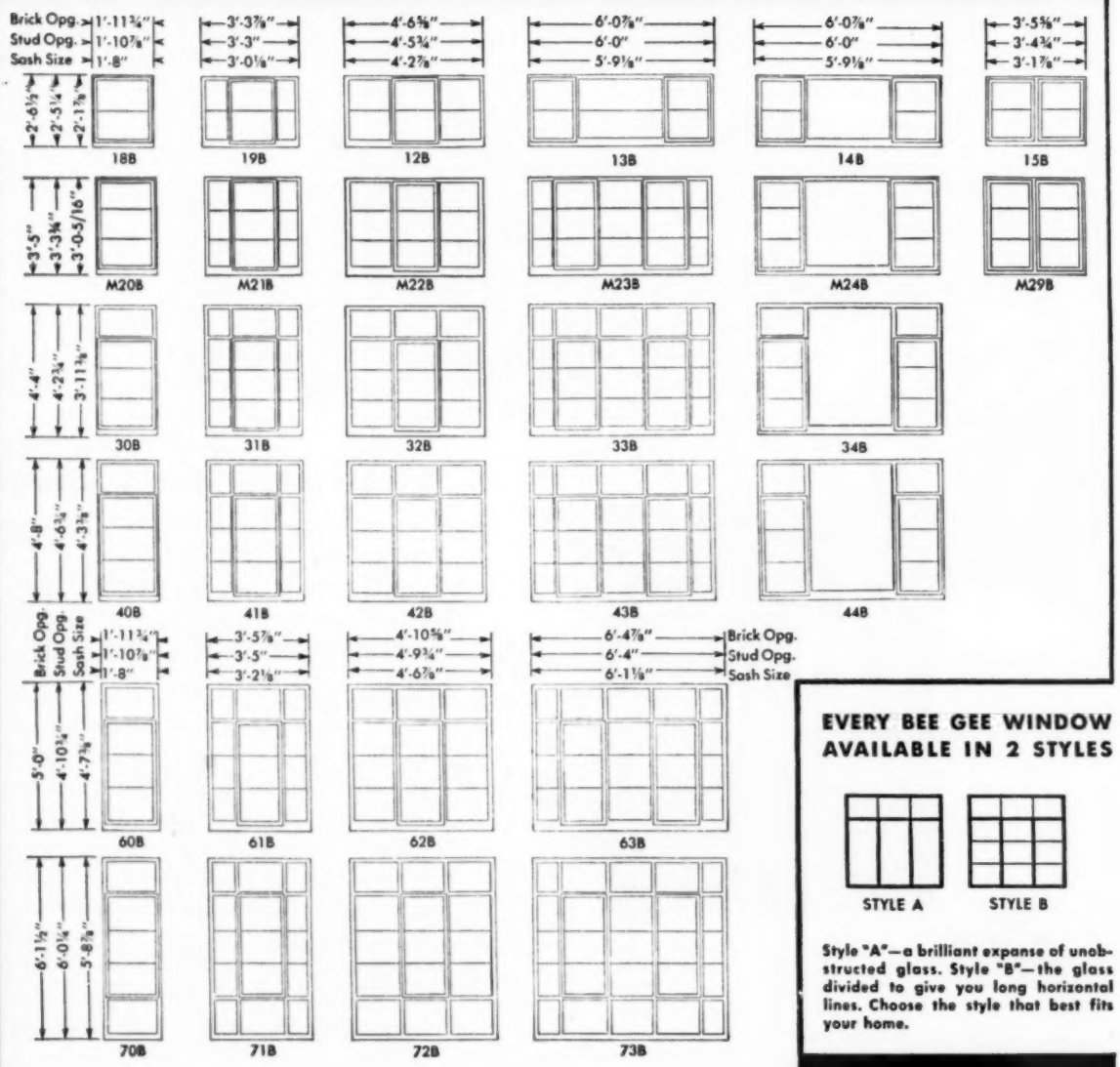

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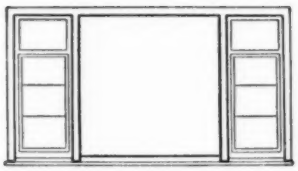

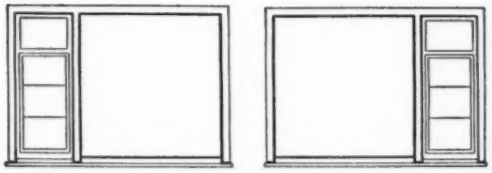

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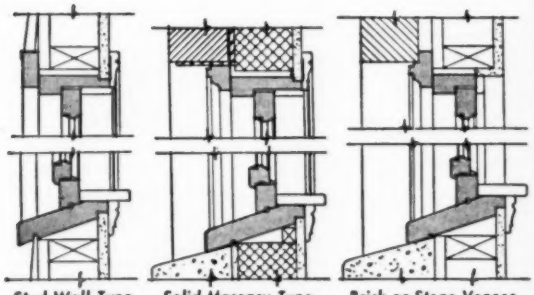

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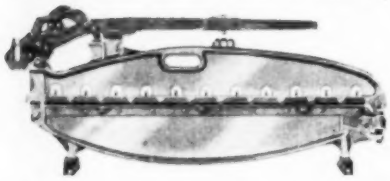

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low-cost house constructions, the W. E. Dunn Manufacturing Co. submitted 18 specimens representing their "Dun-Ti-Stone" construction for walls. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(314) STRUCTURAL PROPERTIES OF A BRICK CAVITY-WALL CONSTRUCTION SPONSORED BY THE BRICK MANUFACTURERS ASSOCIATION OF NEW YORK, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 23; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 31, 1939.—12 pages; price: 10*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (i) Load on facing and backing; (ii) Load on backing only; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 5. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Brick Manufacturers Association of New York, Inc., submitted 13 specimens representing a brick cavity-wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The compressive loads were applied to the facing and backing of three specimens and to the backing only of three other specimens. For each of the loads, three alike specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table.

(315) STRUCTURAL PROPERTIES OF A REINFORCED-BRICK WALL CONSTRUCTION AND A BRICK-TILE CAVITY-WALL CONSTRUCTION SPONSORED BY THE STRUCTURAL CLAY PRODUCTS INSTITUTE by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 24; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 24, 1939.—17 pages; price 10*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of First Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; 5. Properties of Second Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Selected References; (a) Reinforced brick masonry; and (b) Cavity (hollow) walls.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Structural Clay Products Institute submitted 9 specimens representing a reinforced-brick cavity-wall construction. The reinforced-brick wall specimens were subjected to compressive, transverse, concentrated, and impact loads. The brick-tile, cavity-wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated and impact loads were applied to both faces of the brick-tile cavity-wall specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(316) STRUCTURAL PROPERTIES OF CONVENTIONAL WOOD-FRAME CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS by George E. Heck; Building Materials and Structures Report BMS 25; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 13, 1939.—23 pages; price: 15*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; (a) Specimens; (b) Plastering; (c) Test Procedure; 4. Materials; (a) Wood; (i) Framing; (ii) Sheathing; (iii) Laths; (iv) Siding; (v) Shingles; (b) Paper; (c) Plaster; (i) Mix; (ii) Tensile strength of briquets; (d) Nails; 5. Properties of Wall Frames; (a) Comments; (b) Description; (c) Compressive load; (d) Transverse load; 6. Properties of Wall; (a) Description; (b) Compressive load; (c) Transverse load; (d) Concentrated load (e) Impact load; (f) Racking load; 7. Properties of Load-Bearing Partitions (with sub-headings similar to those under 6.); 8. Properties of Floor; (a) Description; (b) Transverse load; (c) Concentrated load; (d) Impact load; 9. Properties of Roof; (a) Description; (b) Transverse load; (c) Concentrated load; 10. Loads and Deflections in Transverse Tests; 11. Significance of Set Readings; 12. Weights; 13. Two Methods of Testing Walls Under Compressive Load; (a) Comments; (b) Description; (c) Test Results; (d) Discussion; and 14. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Forest Products Laboratory built 39 specimens representing conventional wood-frame construction for walls, partitions, floors, and roofs. In addition, six wall frames without covering were built. The wall-frame specimens were subjected to compressive and transverse loads; the wall and partition specimens to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(317) STRUCTURAL PROPERTIES OF "NELSON PRE-CAST CONCRETE FOUNDATION" WALL CONSTRUCTION SPONSORED BY THE NELSON CEMENT STONE COMPANY, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 26; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 9, 1939.—10 pages; price 10*c*. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

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ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Nelson Cement Stone Co. submitted 18 specimens representing their "Nelson Pre-Cast Concrete Foundation" construction for walls. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(318) STRUCTURAL PROPERTIES OF "BENDER STEEL HOME" WALL CONSTRUCTION SPONSORED BY THE BENDER BODY COMPANY by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 27; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 13, 1939.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comment) (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, The Bender Body Co. submitted 21 specimens representing their "Bender Steel Home" construction for walls. The specimens were submitted to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(319) STRUCTURAL PROPERTIES OF A WOOD-FRAME WALL CONSTRUCTION SPONSORED BY THE DOUGLAS FIR PLYWOOD ASSOCIATION by Herbert L. Whittemore and Ambrose H. Stang, with the collaboraton of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 30; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 13, 1939.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sources of information; (b) Materials; (i) Wood; (ii) Nails; (c) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (d) Compressive load; (e) Transverse load; (f) Concentrated load; (g) Impact load; (h) Racking load; and 5. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Douglas Fir Plywood Association submitted 18 specimens representing a wood-frame wall construction. The sheathing on the outside face and the wallboard on the inside face were both Douglas fir plywood. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested, the concentrated-load tests being made on undamaged portions of the impact specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(320) STRUCTURAL PROPERTIES OF "INSULITE" WALL AND "INSULITE" PARTITION CONSTRUCTIONS SPONSORED BY THE INSULITE CO. by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 31; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 26, 1939.—52 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of information; (b) Wood; (i) Framing; (ii) Bevel siding; (iii) Nailing strips; (iv) Furring strips; (v) Shingles; (c) Insulating board; (i) General; (ii) "Bildrite" sheathing; (iii) "Graylite" interior board; (iv) "Lok-Joint" lath; (d) Nails; (e) Plaster; (f) Stucco finish; (i) Stucco; (ii) Sheathing paper; (iii) Metal lath; (iv) Staples; (v) Wire; (g) Brick veneer; (i) Brick; (ii) Mortar; (iii) Wall ties; 5. Properties of First Wall; (a) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-headings identical with those under 5); 7. Properties of Third Wall (same sub-headings); 8. Properties of Fourth Wall (with same sub-headings); 9. Properties of Fifth Wall (with same sub-headings); 10. Properties of Sixth Wall (with same sub-headings); 11. Properties of First Partition; (a) Description, sponsor's statement; (b) Impact load; (c) Concentrated load; 12. Properties of Second Partition (with sub-headings identical with those under 11); 13. Sponsor's comments; and 14. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, The Insulite Co. submitted 114 specimens representing 6 wall and 2 partition constructions having wood framing with "Bildrite" sheathing, "Graylite" interior board, and "Lok-Joint" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads and the partition specimens to impact and concentrated loads. The transverse, concentrated and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(321) STRUCTURAL PROPERTIES OF TWO BRICK-CONCRETE-BLOCK WALL CONSTRUCTIONS AND A CONCRETE-BLOCK WALL CONSTRUCTION SPONSORED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 32; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 2, 1939.—19 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of information; (b) Brick; (c) Concrete units; (i) "Haydite", first wall; (ii) "Waylite" units, second wall; (iii) "Pottsco" units, third wall; (d) Mortar; 5. Fabrication data; 6. Properties of first wall; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 7. Properties of Second Wall; and 8. Properties of Third Wall (Note: 7 and 8 have sub-headings identical with those under 6.)

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the National Concrete Masonry Association, Chicago, Ill., submitted 48 specimens representing 3 wall constructions, 2 of which consisted of brick facing and concrete-block backing, the other of concrete blocks only. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the brick-concrete-block wall constructions. For each of the loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(322) STRUCTURAL PROPERTIES OF WOOD-FRAME WALL, PARTITION, FLOOR, AND ROOF CONSTRUCTIONS WITH "RED-STRIPE" LATH SPONSORED BY THE WESTON PAPER AND MANUFACTURING CO. by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 36; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 2, 1940.—26 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of Information; (b) Wood; (i) Framing for walls and partitions; (ii) Framing for floors and roofs; (iii) Sheathing and subflooring; (iv) Bevel siding; (v) Bridging; (vi) Flooring; (vii) Spacers and grounds; (c) "Red Stripe" lath; (i) Description; (ii) Physical properties; (d) Nails; (e) Plaster; (f) Sheathing paper; (g) Tacks; (h) Size; (i) Paints; (A) Outside; (B) Inside; (j) Shellac varnish; (k) Roofing; (i) Asphalt; (ii) Caps; 5. Properties of Wall; (a) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Partition; (a) Description, sponsor's statement; (b) Concentrated load; (c) Impact load; 7. Properties of Floor; (a) Description, sponsor's statement; (b) Transverse load; (c) Concentrated load; (d) Impact load; 8. Properties of Roof; (a) Description, sponsor's statement; (b) Transverse load; (c) Concentrated load; and 9. Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-rent house constructions, The Weston Paper and Manufacturing Co. submitted 30 specimens representing wood-frame wall, partition, floor, and roof constructions with "Red Stripe" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to concentrated and impact loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. For each of the loads three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens, and for each of these

loads six like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(323) STRUCTURAL PROPERTIES OF "PALISADE HOMES" CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY PALISADE HOMES by Herbert L. Whittemore and Ambrose H. Stang; Building Materials and Structures Report BMS 37; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued February 13, 1940.–23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sponsor's statement; (b) Wood; (i) Structural members; (ii) Plywood wallboard; (iii) Flooring; (iv) Battens; (v) Filler strips; (c) Fastenings; (i) Nails; (ii) Box strapping; (iii) Perforated hanger iron; (iv) Blind fasteners; (v) Corrugated fasteners; (vi) Splines; (d) Paint; (e) Shellac varnish; 5. Properties of Wall; (a) Sponsor's statement; (i) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (ii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of First Partition; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Concentrated load; (c) Impact load; 7. Properties of Second Partition (with sub-headings identical with those under 6); 8. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 9. Additional Comments by Sponsor; and 10. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, Palisade Homes submitted 30 specimens representing their "Palisade Homes" patented construction for walls, partitions, and floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to impact and concentrated loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(324) STRUCTURAL PROPERTIES OF TWO "DUNSTONE" WALL CONSTRUCTIONS SPONSORED BY THE W. E. DUNN MANUFACTURING CO. by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 38; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued February 7, 1940.–13 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of First Wall; (a) Description; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Fabrication data; (b) Compressive load; (c) Transverse load; (d) Concentrated load (e) Impact load; (f) Racking load; 5. Properties of Second Wall (with sub-headings identical with those under 4); and 6. Sponsor's Comments.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions the W. E. Dunn Manufacturing Co. submitted 24 specimens representing 2 designs of their "Dunstone" constructions for walls. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(325) STRUCTURAL PROPERTIES OF A WALL CONSTRUCTION OF "PFEIFER UNITS" SPONSORED BY THE WISCONSIN UNITS COMPANY by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 39; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Published January 31, 1940. –14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 5. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Wisconsin Units Co. submitted 18 specimens representing a wall construction of "Pfeifer Units." The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(326) STRUCTURAL PROPERTIES OF A WALL CONSTRUCTED OF "KNAP CONCRETE WALL UNITS" SPONSORED BY KNAP AMERICA, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 40; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued February 21, 1940.–14 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, Knap America Inc. submitted 12 specimens representing a wall construction of "Knap Concrete Wall Units." The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(327) EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS by Cyrus C. Fishburn and Perry H. Petersen; Building Materials and Structures Report BMS 41; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued January 11, 1940.–6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. The Walls; (a) Materials; (b) Workmanship; 3. Permeability Tests; 4. Heating and Cooling of the Walls; 5. Discussion of Permeability Test Data; (a) All-brick walls; (b) Walls with brick facings and hollow-unit backings; (c) Walls with stucco facings; and 6. Conclusions.

ABSTRACT. Since the coefficients of thermal expansion of masonry units and mortars are unequal, changes in temperature may tend to cause cracks in the mortar joints of masonry walls. Exposure to wind-driven rain may then result in the leakage of water through the walls. Permeability tests were made on 11 small masonry wall specimens before and after exposing them to a number of cycles of heating and cooling. Seven of the specimens were 12-in. brick walls, two were of clay tile with stucco facings, and two were brick walls with hollow-unit backings. The walls were dry when subjected to extremes of temperature over a range of about 105° F. The maximum air temperature was about 125° F. and the minimum less than 20° F. For each cycle, the walls were stored in the heating or cooling rooms until they attained room temperature. Data obtained from the tests indicated that repeated exposures of dry walls to extremes of temperature did not have an important effect on the permeability of all-brick walls. The permeability of the walls with facings of brick and backings of hollow units and of those faced with stucco increased slightly as the result of exposure to cycles of heating and cooling.

(328) STRUCTURAL PROPERTIES OF WOOD-FRAME WALL AND PARTITION CONSTRUCTIONS WITH "CELOTEX" INSULATING BOARDS SPONSORED BY THE CELOTEX CORPORATION by Herbert L. Whittemore, and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 42; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued March 2, 1940.–25 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating board; (c) Nails; (d) Plaster; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-sections identical with those under 5.); 7. Properties of Partition; (a) Sponsor's statement; (b) Concentrated load; (c) Impact load; and 9. Sponsor's Comments.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, The Celotex Corporation submitted 42 specimens representing 2 wall and 2 partition constructions having wood framing with "Celotex Vapor-seal Insulating" sheathing, "Celotex" building board, and "Celotex Vapor-seal Insulating" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads and the partition specimens to impact and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(329) STRUCTURAL PROPERTIES OF "SCOT-BILT" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, FLOORS, AND ROOFS SPONSORED BY THE GLOBE-WERNICKE CO. by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 46; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Is-

sued May 23, 1940.–24 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Steel; (b) Wood; (c) Nails; (d) Screws; (e) Bolts and nuts; (f) Mineral wool; (g) Adhesive; (h) Roof insulating board; (i) Roofing; (j) Gypsum wallboard; (k) Paint; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 7. Properties of Roof; (a) Sponsor's statement; (b) Transverse load; (c) Concentrated load; and 8. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions The Globe-Wernicke Co. submitted 27 specimens representing their "Scot-Bilt" prefabricated sheet-steel wall, floor, and roof constructions. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The loads simulated the loads to which the elements of a house are subjected in actual service. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(330) STRUCTURAL PROPERTIES OF PREFABRICATED WOOD-FRAME CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY AMERICAN HOUSES, INC., by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 47; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued June 3, 1940.–26 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Wallboard; (c) Nails; (d) Sheathing paper; (e) Staples; (f) Glue; (g) Joint filler; (h) Tape; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Load-Bearing Partition; (a) Sponsor's statement; (i) Four-foot partition specimens; (ii) Eight-foot partition specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 7. Properties of Non-Load Bearing Partition; (a) Sponsor's statement; (i) Description of specimens; (ii) Comments; (b) Concentrated load; (c) Impact load; 8. Properties of Floor; (a) Sponsor's statement; (i) Description of specimens; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; and 9. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, American Houses, Inc., New York, N. Y., submitted 39 specimens representing wood-frame wall, partition, and floor constructions. The wall and load-bearing partition specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the nonload-bearing partition specimens to concentrated and impact loads; the floor specimens to transverse, concentrated, and impact loads. For each of the loads, three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(331) STRUCTURAL PROPERTIES OF "PRECISION-BUILT" FRAME WALL AND PARTITION CONSTRUCTIONS SPONSORED BY THE HOMASOTE CO., by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of George E. Heck, Forest Products Laboratory; Building Materials and Structures Report BMS 48; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued May 13, 1940.–30 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) "Homasote" insulating fiberboard; (c) Nails; (d) Glue; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Twelve-foot wall specimens; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-headings identical with those under 5); 7. Properties of Load-Bearing Partition; (a) Sponsor's statement; (i) Four-foot partition specimens; (ii) Eight-foot partition specimens; (iii) Twelve-foot partition specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 8. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 63 specimens, representing 2 wall and 1 partition constructions, consisting of wood frames with "Homasote" insulating fiberboard as inside face, as outside face, and as sheathing. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(332) STRUCTURAL PROPERTIES OF A MASONRY WALL CONSTRUCTION OF "MUNLOCK DRY WALL BRICK" SPONSORED BY THE MUNLOCK ENGINEERING CO. by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 53; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued June 13, 1940.–12 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Munlock Engineering Co. submitted 12 specimens representing their "Munlock Dry Wall Brick" wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in a table.

(333) EFFECTS OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS by Cyrus C. Fishburn; Building Materials and Structures Report BMS 55; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued September 18, 1940.–6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of the Walls; (a) Materials; (b) Workmanship; 3. Method of Test; (a) The wetting exposure; (b) Drying the walls; (c) The observations; 4. Effects of Wetting and Drying on the Permeability of the Walls; (a) All-brick walls; (b) Walls with brick facings and hollow-unit backings; (c) Wall with stucco facings; and 5. Conclusions.

ABSTRACT. Since the volume changes resulting from the wetting and drying of masonry units and mortars are unequal, changes in the moisture content of a masonry wall may produce differential volume changes between the units and the mortar, resulting in the formation or enlargement of cracks in the joints. The effects of changes in the moisture content of 8 small masonry walls were studied by measuring the permeability of the walls during each of about 12 cycles of wetting and drying. The walls were wetted by applying water to the exposed face simulating an exposure to a wind-driven rain. The specimens were not subjected to freezing during wetting or drying. Five of the walls were of all-brick construction, one was a stucco-faced wall, and two were faced with brick and backed with hollow units. There was no significant change in the permeability of the walls resulting from the exposure to wetting and drying.

(334) STRUCTURAL PROPERTIES OF TWO NONREINFORCED MONOLITHIC CONCRETE WALL CONSTRUCTIONS by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 61; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued October 28, 1940.–13 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; 4. Materials; (a) Cement; (b) Aggregates; (i) Fine; (ii) Coarse; 5. Properties of First Wall; (a) Description; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load; 6. Properties of Second Wall (with subdivisions identical with those under 5); and 7. Comments.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Masonry Construction Section of the National Bureau of Standards built 24 specimens representing two nonreinforced monolithic concrete wall constructions. The only difference in their construction was in the proportions of the concrete. The specimens were subjected to compressive, transverse, impact, concentrated, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for each increment of load; the results are presented in graphs and a table.

(335) STRUCTURAL PROPERTIES OF "MU-STEEL" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY HERMAN A. MUGLER by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 67; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued April 2, 1941.–23 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Steel; (b) Bolts; (c) Paint; (d) Insulating board; (e)

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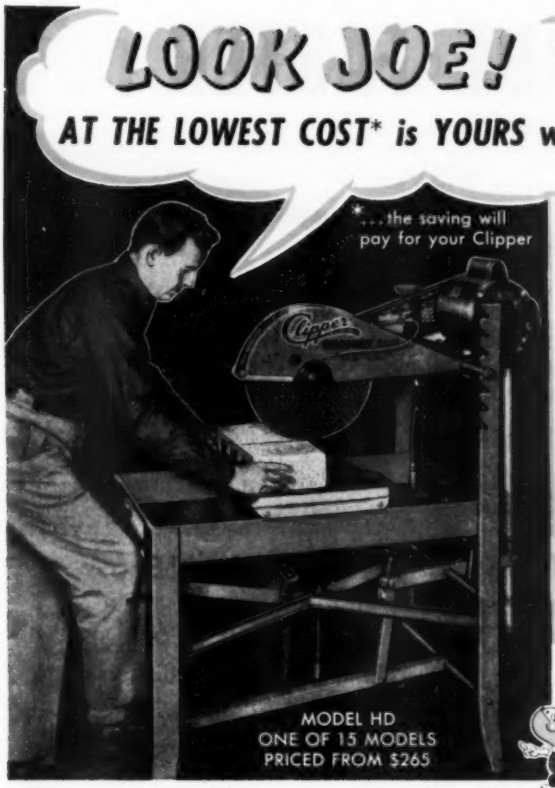

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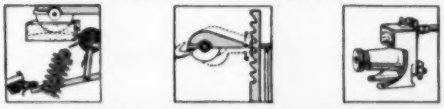

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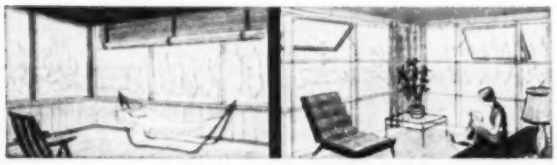
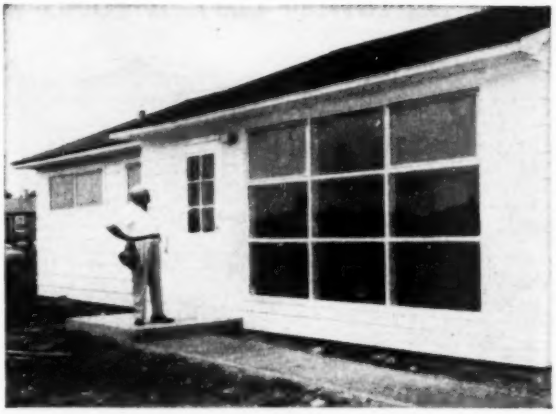
There are millions of homes with old-fashioned window arrangements—windows that mark a home as out of date—windows that deprive home owners of views they want. Get remodeling business by suggesting replacement with picture windows of *Thermopane* insulating glass.



Many a home owner wishes he had another room instead of an open porch, a breezeway or a carport. Suggest enclosing them with walls of *Thermopane*—a simple way to add a bright, cheery room. This is an easy remodeling job that can add up to good business for you. 1954 is a big year for remodeling and expansion of homes.



Types of THERMOPANE for homes

Two lights of DSA Glass ⅛″ glass thickness and ¼″ air space. Number of standard sizes—63

Thermopane made with DSA Glass is economical double glazing. While made with the finest quality window glass, it does not provide the clarity of vision attained with Polished Plate Glass.

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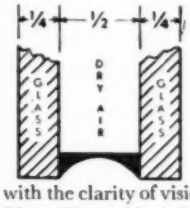

Two lights of Plate Glass ¼″ glass thickness and ½″ air space. Number of standard sizes—47

This *Thermopane* provides excellent thermal insulation, combined with the clarity of vision that you get only with Polished Plate Glass. Ideal for picture windows and window walls.

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If you don't have a recent list of standard sizes, ask your L·O·F Distributor or Dealer for one. Or write us. You can save time and money with standard sizes. Standard sizes are popular for they're made in large quantities and therefore cost less.

As you can see from the figures on the left page, there are many standard sizes in each type of *Thermopane*. You can meet the need for many types of ventilating sash, and for picture windows of almost any shape.

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The list of types and brands of sash for *Thermopane* has grown so fast and so large that it is impossible to list them here. These are some of the standard types of sash which take *Thermopane:*

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You can buy ready-made frames for picture windows, or fabricate them yourself. For details on framing required for *Thermopane's* extra thickness, consult your L·O·F Distributor or Dealer. *Thermopane* insulating glass is a "must" for big windows.

Panel Windows

With this popular window, an entire house can be glazed with just two standard sizes of *Thermopane*—one for fixed lights and the other for ventilators. For the past three years, builders throughout the country have used this *Thermopane* construction, and have sold their houses at no higher price than conventional houses with single glazing.

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Casement, awning and panel window types are available for glazing with *Thermopane.*

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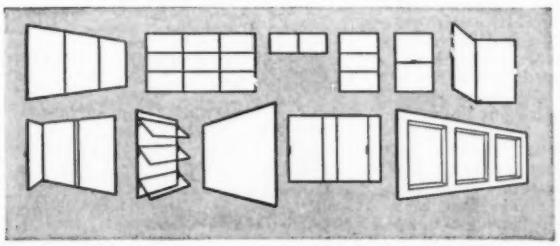

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- List of sash types for *Thermopane*
- Folder on the Panel Window System
- *Thermopane* banner—so prospects will know that your houses have this valuable feature.

Get in touch with your L·O·F Glass Distributor or Dealer. Ask him to help you figure *Thermopane* for your next house. See how little extra it costs to add the sales power of America's best-known double-glazing to your homes.

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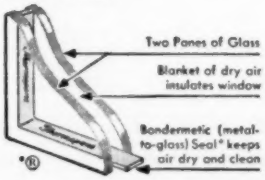

Sheathing paper; (f) Wood; (g) Nails; (h) Roof covering; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load; 6. Properties of Partition; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Impact load; (c) Concentrated load; 7. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 8. Properties of Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; and 9. Additional Statements by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, Herman A. Mugler submitted 33 specimens representing his "Mu-Steel" prefabricated sheet-steel wall, partition, floor, and roof constructions. The wall specimens were subjected to compressive, transverse, impact, concentrated, and racking loads; the partition specimens to impact and concentrated loads; the floor specimens to transverse, impact, and concentrated loads; and the roof specimens to transverse and concentrated loads. The transverse, impact, and concentrated loads were applied to both faces of the wall specimens. The impact and concentrated loads were applied to both faces of the partition specimens. The loads simulated the loads to which the elements are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results of the measurements are presented in graphs and tables.

(336) **FIRE TESTS OF WOOD- AND METAL-FRAMED PARTITIONS** by S. H. Ingberg and Nolan D. Mitchell; Building Materials and Structures Report BMS 71; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 12, 1941.—51 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Lumber; (b) Channels; (c) Lath; (d) Sand; (e) Plaster; 3. Construction of Partitions; (a) Framework; (i) Wood frames; (ii) Steel frames; (b) Lathing; (c) Facings; (i) Board facings; (ii) Gypsum plaster; (iii) Lime plaster; (iv) Portland cement plaster; (v) Equivalent volume proportions; (vi) Curing of plaster; (vii) Thickness of plaster facings; (d) Mineral fills; 4. Equipment and method of testing; (a) Equipment; (b) Method of testing; 5. Results of Tests; (a) Partitions of plasterless types; (b) Plastered partitions with combustible framework and combustible lath; (c) Plastered partitions with wood framing and incombustible or partly combustible lath; (i) Gypsum lath; (ii) Paper backed metal fabrics; (iii) Metal lath, gypsum plaster; (iv) Metal lath, lime plaster; (v) Metal lath, portland cement plaster; (d) Hollow partitions with combustible framing and incombustible or partly combustible lath; (e) Solid plaster partitions with incombustible framework and incombustible or partly combustible lath; (i) Board plaster bases; (ii) Metal-lath base, gypsum plaster; (iii) Metal-lath base, portland cement plaster; (f) Partition facings as protective finish over combustible framing; (g) Deflection and stability; 6. Summary and Discussion; (a) Board partitions without plaster; (b) Hollow wood-framed partitions with plaster on combustible bases; (c) Hollow wood-framed partitions with plaster on incombustible or partly combustible bases; (i) Variations in results due to thickness; (ii) Partitions with gypsum plaster bases; (iii) Wood-stud, metal-lath partitions; (A) Gypsum plaster; (B) Lime plaster; (C) Portland cement plaster; (d) Hollow steel-stud partitions; (e) Solid plaster partitions; (f) Partition facings as protection for combustible supports; (g) Resistance to the hose stream; (h) Significance of fire-endurance limits; 7. Appendix A. Standard Specifications for Fire Tests of Building Construction and Materials, American Standard ASA No. A2-1934; 8. Appendix B. Selected References on Fire Tests of Wood- and Metal-Framed Partitions.

ABSTRACT. This report describes in some detail the test partitions and gives the results of 147 fire-endurance or fire and hose-stream tests conducted at the National Bureau of Standards. Seventy-eight of the partitions were of wood or framed with wood studs and faced with wood, wood fiber, or gypsum boards, or with plasters applied on wood, gypsum, expanded metal, or wire laths. The others were of hollow or solid incombustible nonbearing types, most of which were framed with steel channels and had body or facings of gypsum or portland cement plaster on metal laths. Most of the wood-stud partitions were of the load-bearing type, and 38 of them were tested under a constant working load while exposed to fire. Their fire-resistance limits, depending on the facings, ranged from 10 min. with ½-in. wood-fiber insulating boards applied on each side to 2 hr. with 1-in.-thick facings of neat wood-fibered gypsum plaster. Filling the spaces between studs with mineral wool increased the fire resistance appreciably. The fire-resistance limit was considered reached when (a) failure under load or passage of flame occurred, (b) the limiting temperature rise (250 degrees F. average or 325 degrees F. maximum) was reached on the unexposed side, or (c) cotton waste in contact therewith became ignited. The protection given the wood studs by the fire-exposed facing, as based on the limiting temperature rise on the edges facing the furnace, ranged from one-sixth to one-third of the fire-resistance limit of the partition construction as such. The results with metal-framed hollow partitions differed little from those with wood-stud partitions having the same facings, in so far as the rise of temperature on the unexposed surface was concerned, but the former remained longer as barriers to the spread of fire after such technical end points had been reached. For the solid plaster partitions, 2 to 2½ in. thick, the range in fire resistance was from 20 min. with portland cement sanded plaster or mortar to 2½ hr. with unsanded fibered gypsum plaster. Sanded gypsum plasters gave intermediate results. For incombustible materials not subject to decided cracking or spalling when exposed to the furnace test, it was found that the fire-resistance, as limited by the temperature rise on the side not exposed to fire, varied approximately with the 1.7 power of the thickness of solid partitions or combined thickness of facings for those of hollow type. This is in fair agreement with relations derived from the theory of heat conduction.

Partition constructions of materials and types that restrict the spread of fire contribute appreciably to fire safety. In buildings that are structurally of the fire-resistive or fireproof type, a fire thus can be prevented from spreading beyond the area in which it originated, and in non-fire-resistive buildings its progress can be greatly retarded. This paper gives the results of fire tests of particular constructions representative of a wide range in materials and design. The results are given in terms of performance under recognized testing procedure. This enables regulatory bodies to require given ratings for partitions in certain general locations, with assurance that practical constructions are available that will meet the requirements. It also gives the builder a choice of constructions that will meet the requirements, thus making possible the use of the most advantageous type in a given building or project, which should assist in obtaining the desired degree of fire resistance at lowest cost. Partitions of given fire-resistance ratings are generally required as separations between tenants, subdivisions of large areas, and for segregating hazardous occupancies, processes, or storage. Even within an area for which no legal requirements for fire subdivision apply, the use of partitions of materials that will contribute a minimum to the severity of the fire and in some degree present a barrier to its spread is an effective means of structural fire control.

(337) **STRUCTURAL PROPERTIES OF "PRECISION-BUILT, JR." PREFABRICATED WOOD-FRAME WALL CONSTRUCTION SPONSORED BY THE HOMASOTE CO.** by Archie H. Easton and Mahlon F. Peck, with the collaboration of R. F. Luxford (Forest Products Laboratory); Building Materials and Structures Report BMS 72; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 14, 1941.—14 pages; Price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating Fiberboard; (c) Nails; (d) Glue; 5. Properties of the Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Additional Comments by Sponsor; and 7. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 12 specimens representing a wall construction consisting of a wood frame with "Homasote" insulating fiberboard on both faces. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; for each load three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in a table.

(338) **STRUCTURAL AND HEAT-TRANSFER PROPERTIES OF "U.S.S. PANELBILT" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, PARTITIONS, AND ROOFS SPONSORED BY THE TENNESSEE COAL, IRON & RAILROAD CO.** by Herbert L. Whittemore, Ambrose H. Stang, Vincent B. Phelan, and Richard S. Dill; Building Materials and Structures Report BMS 74; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 30, 1951.—28 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat Transfer; 4. Materials; (a) Steel; (b) Paint; (c) Insulating board; (d) Screws; (e) Bolts; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Heat-transfer specimen; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; (g) Heat transfer properties; 6. Properties of Second Wall (with sub-sections similar to those given under 5); 7. Properties of Partition; (a) Sponsor's Statement; (i) Description; (ii) Comments; (b) Concentrated load; (c) Impact load; 8. Properties of Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; 9. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural and heat-transfer properties of low-cost house constructions, the Tennessee Coal, Iron & Railroad Co. submitted 42 specimens representing its "U.S.S. Panelbilt" prefabricated sheet-steel constructions. There were two wall constructions, a partition construction, and a roof construction. The wall specimens were subjected to comprehensive transverse, concentrated, impact, and racking loads; the partition specimens to concentrated and impact loads; and the roof specimens to transverse and concentrated loads. Transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The loads simulated the loads to which the specimens are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables. Heat-transfer properties were determined for one wall specimen by means of tests in a shielded hot-box heat-transfer apparatus. The results are given in a table.

(339) **EFFECT OF OUTDOOR EXPOSURE ON THE WATER PERMEABILITY OF MASONRY WALLS** by Cyrus C. Fishburn, Douglas E. Parsons, and Perry H. Petersen; Building Materials and Structures Report BMS 76; pub-

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lished by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 15, 1941.—21 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. The Wall Specimens; (a) Materials used in the walls; (b) Workmanship used in the walls; (c) Walls with waterproofed faces; (d) Walls without waterproofings; 3. Method of Test; (a) Outdoor exposure; (b) Permeability tests; (c) Observations; (d) The data; (e) Performance ratings; 4. Effects of the Outdoor Exposure; (a) Structural condition of the walls after exposure; (i) All-brick masonry walls, not waterproofed; (ii) Other masonry walls, not waterproofed; (iii) Waterproofed masonry walls; (b) Permeability of the plain, not-waterproofed walls; (i) All-brick and brick-faced walls 8 or more inches in thickness; (ii) Four-inch brick walls with parged backings; (iii) Stucco-faced walls; (c) Permeability of the waterproofed walls; (i) Walls treated with paraffin and tung-oil solutions and waxes; (ii) Walls with repointed face joints; (iii) Walls with grouted face joints; (iv) Walls painted with oil or cement-water paints; (v) Proprietary waterproofing materials; and 5. Summary.

ABSTRACT. The water permeabilities of about 100 small masonry-wall specimens were measured before and after exposing them to the weather at Washington, D. C., for a maximum period of 3 years. Some of the more permeable walls had been waterproofed before exposure, and the durability of the waterproofing treatments, as well as the structural appearance or condition of the walls, was also determined. The exposure did not have an important effect on the permeability of all-brick or brick-faced walls 8 in. or more in thickness. The permeability of stucco-faced walls was slightly increased. Repointing of the face joints was the most effective and durable of the water-proofing treatments.

Two previous reports (BMS 41: EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS, and BMS 55: EFFECT OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS) describe investigations of the factors affecting the water permeability of small masonry walls when first constructed. These are listed as items (327) and (333) of the present reading list. For a description of the materials and of the method or types of workmanship used in the construction of the walls, see report BMS 7: WATER PERMEABILITY OF MASONRY WALLS, which is item (305) of this list.

(340) STRUCTURAL, HEAT-TRANSFER, AND WATER-PERMEABILITY PROPERTIES OF FIVE EARTH-WALL CONSTRUCTIONS by Herbert L. Whittemore, Ambrose H. Stang, Elbert Hubbell, and Richard S. Dill; Building Materials and Structures Report BMS 78; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 1, 1941.—55 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Earth; (b) Cement; (c) Lime; (d) Sand; (e) Mortar; (f) Bituminous stabilizer; 3. Specimens; (a) Adobe-block walls; (i) General information; (ii) Manufacture of blocks; (iii) Control; (iv) Construction of wall; (b) Bitudobe-block walls (with sub-headings same as in "a"); (c) Monolithic terracrete walls (with sub-headings similar to those in "a"); (d) Terracrete-block walls (with sub-headings same as in "a"); (e) Rammed-earth walls (with sub-headings similar to those in "a"); 4. Structural Properties; (a) Properties of adobe-block wall; (i) Description; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Racking load; (b) Properties of bitudobe-block wall (with sub-headings similar to those under "a"); (c) Properties of monolithic terracrete walls (with sub-headings similar to those under "a"); (d) Properties of terracrete-block wall (with sub-headings similar to those under "a"); (e) Properties of rammed-earth wall (with sub-headings similar to those under "a"); 5. Heat-Transfer Properties; (a) Specimens; (b) Heat-transfer test equipment; (c) Heat-transfer test procedure; (d) Heat-transfer test results; 6. Water-Permeability Properties; (a) Specimens; (b) Water-permeability test procedure; (c) Water-permeability test results; (d) Conclusions; 7. Additional Comments; (a) Types of construction; (i) Wattle and daub; (ii) Sod houses; (iii) Mud walling; (iv) Poured earth; (v) Monolithic adobe; (vi) Adobe block; (vii) Rammed earth; (b) Selection of earth; (c) Construction equipment; (d) Protection against moisture; (e) Construction details; and 8. Selected References.

ABSTRACT. For the program on the investigation of low-cost house constructions, specimens representing adobe, bitudobe, monolithic terracrete, terracrete-block, and rammed-earth walls were constructed with the cooperation of The Office of Indian Affairs and the National Youth Administration. These specimens were subjected to structural, heat-transfer, and water-permeability tests. Sixty structural specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to one face. The loads simulated those to which elements of a house are subjected in actual service. The deformations under load and the sets after the load was removed were measured for each increment of load. Five heat-transfer specimens were subjected to a temperature differential that might occur in actual service. Five water-permeability specimens were tested under conditions that simulated exposure to a heavy, wind-driven rain. Although the use of earth as a building material has been described in numerous articles in popular periodicals, and a considerable number of houses had been built of this material, there was a lack of technical information on the structural, thermal, and water-permeability properties of such constructions. These properties have now been determined by the same methods previously used by the National Bureau of Standards to determine the properties of masonry and wood constructions. The program for testing earth-wall constructions was developed at a conference attended by Thomas Hibben, National Youth Administration; Elbert Hubbell, The Office of Indian Affairs; Commander C. S. Stephenson, Bureau of Medicine and Surgery, Navy Department; T. A. H. Miller, Bureau of Agricultural Chemistry and Engineering; Francis Macdonald, Consulting Engineer; and five officials of the National Bureau of Standards: D. E. Parsons, C. C. Fishburn, H. L. Whittemore, A. H. Stang, and G. W. Shaw.

(341) WATER PERMEABILITY OF WALLS BUILT OF MASONRY UNITS by Cyrus C. Fishburn; Building Materials and Structures Report BMS 82; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 15, 1942.—37 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Wall Specimens; (a) Sponsors; (b) Materials; (i) Bricks; (ii) Structural clay tiles; (iii) Concrete units; (iv) Mortars; (v) Grout; (vi) Metal ties; (c) Construction of the walls; (i) Procedure; (ii) Designation of specimens; (iii) Kinds of workmanship; (iv) Construction of sponsored walls built of special units; 3. Testing of the Walls; (a) Apparatus and test method; (b) Observations; (c) Method of rating performance; 4. Data and Discussion; (a) Data; (b) Effect of workmanship on permeability; (i) Brick walls; (ii) Brick-faced walls backed with hollow units; (iii) Cavity walls; (c) Effect of brick-suction on permeability; (d) Effect of water retentivity of the mortars on ease of construction and on permeability; (e) Effect of properties of unit on permeability; (i) Absorptive properties of the bricks; (ii) Cored holes in bricks; (iii) Brick of special shapes; (iv) Structural clay tile or concrete units; and 5. Summary.

ABSTRACT. Exterior masonry walls of houses or other buildings may occasionally be penetrated by wind-driven rains, with subsequent damage to the interior finish of such structures. An extensive investigation in the water-permeability of small masonry wall specimens has resulted in the publication of report BMS 7: WATER PERMEABILITY OF MASONRY WALLS when first constructed; report BMS 76: EFFECT OF OUTDOOR EXPOSURE ON THE WATER PERMEABILITY OF MASONRY WALLS; report BMS 55: EFFECTS OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS; and report BMS 41: EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS in the dry condition. The present report measures the water permeability of small masonry wall specimens. Fourteen kinds of workmanship, 39 kinds of units, and 10 kinds of mortars were represented in a group of 140 walls. The permeability of the specimens was low when the vertical joints were filled or partly filled with mortar or grout, when the suction of the bricks was low, and when a mortar having a high water retentivity was used. The effect of water retentivity of the mortars on the permeability of the walls was greatest when the brick-suction was high. Mortar having a low water retentivity stiffened rapidly when placed in contact with dry, highly absorptive bricks, and units having a low suction floated out of alignment when placed in contact with such a mortar. (For the earlier reports in this series, see items (305), (339), (333) and (327) of the present reading list.

(342) STRUCTURAL, HEAT-TRANSFER, AND WATER-PERMEABILITY PROPERTIES OF "SPEED-BRIK" WALL CONSTRUCTION SPONSORED BY THE GENERAL SHALE PRODUCTS CORPORATION by Mahlon F. Peck, Vincent B. Phelan, Richard S. Dill, and Perry H. Petersen; Building Materials and Structures Report BMS 86; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 15, 1942.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat-transfer; (c) Water permeability; 4. Structural Properties; (a) Materials; (i) Masonry units; (ii) Mortar; (A) Cement; (B) Lime; (C) Sand; (D) Mix; (iii) Fabrication data; (b) Sponsor's statement; (i) Description of wall specimens; (A) Four-foot specimens; (B) Eight-foot specimens; (c) Compressive load; (d) Transverse load; (e) Concentrated load; (f) Impact load; (g) Racking load; 5. Heat-Transfer Properties; 6. Water-Permeability Properties; (a) Materials; (i) Masonry units; (ii) Mortar; (b) Description of specimens; (c) Test procedure; (d) Test results; and 7. Comments.

ABSTRACT. For the program on the investigation of low-cost house constructions, specimens representing "Speed-brik" masonry wall construction were submitted by General Shale Products Corporation. These specimens were subjected to structural, heat-transfer, and water-permeability tests. The structural specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to the inside face of the specimens. The deformation under load and the set after the load was removed were measured for each increment of load. Heat-transfer properties of two specimens were determined in a shielded hot-box heat-transfer apparatus. Nine water-permeability specimens were tested under conditions that simulated exposure to a heavy wind-driven rain.

(343) STRUCTURAL PROPERTIES OF "PRECISION-BUILT, JR." (SECOND CONSTRUCTION) PREFABRICATED WOOD-FRAME WALL CONSTRUCTION SPONSORED BY THE HOMASOTE CO. by W. Gail Hoback, Herman L. Weiss, and Vincent B. Phelan, with the collaboration of the Forest Products Laboratory; Building Materials and Structures Report BMS 89; published by U. S. Department of Commerce, National

Bureau of Standards, Washington, D. C.—Issued July 17, 1942.—15 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating fiberboard; (c) Sheathing paper; (d) Nails; (e) Glue; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot specimens; (ii) Eight-foot specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 6. Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 18 specimens representing a wall construction consisting of a wood frame with "Homasote" insulating fiberboard on the inside face and bevel siding on the outside face. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the specimens. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and tables.

(344) STRUCTURAL PROPERTIES OF "PHC" PREFABRICATED WOOD-FRAME CONSTRUCTIONS FOR WALLS, FLOORS, AND ROOFS SPONSORED BY THE PHC HOUSING CORPORATION by Mahlon F. Peck, W. Gail Hoback, and Vincent B. Phelan; Carlile P. Winslow, Forest Service, Collaborator; Building Materials and Structures Report BMS 90; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 18, 1942.—34 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2.Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating board; (c) Steel; (d) Paint; (e) Glue; (f) Pins; (g) Bolts; (h) Washers; (i) Screws; (j) Nails; (k) Felt; (l) Rubber; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Racking load; 7. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 8. Properties of First Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; 9. Properties of Second Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; and 10. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the PHC Housing Corporation submitted 33 specimens representing "PHC" prefabricated wood-frame constructions for walls, floors, and roofs. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated loads were applied to both faces of wall specimens. For each of the loads, three like specimens were tested; the concentrated loads were applied to the same specimens as either the transverse or the impact loads. The loads simulated the loads to which the elements of a house are subjected in actual service. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and tables.

(345) ACCUMULATION OF MOISTURE IN WALLS OF FRAME CONSTRUCTION DURING WINTER EXPOSURE by Charles G. Weber and Robert C. Reichel; Building Materials and Structures Report BMS 93; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 4, 1942.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Wall Sections Tested; 3. Testing Procedure; 4. Performance of Test Walls; 5. Summary and Conclusions; and 6. References.

ABSTRACT. The condensation and accumulation of moisture in outside walls of frame construction were observed during winter weather in Washington, D. C. Seven different constructions were exposed simultaneously as adjacent full-height sections of the north wall of a frame structure. The humidity and temperature of the inside air were controlled to produce an average vapor-pressure drop across the wall of approximately 0.2 pound per square inch. Use of a good vapor barrier on the warm side of the wall prevented condensation. In every instance where no vapor barrier was used on the warm side of the wall, condensation occurred within the wall. The use of a vapor barrier on the cold side of the wall increased the accumulation of moisture. The performance of walls of standard wood construction was not basically different from those containing fiber sheathing boards.

(346) WATER PERMEABILITY AND WEATHERING RESISTANCE OF STUCCO-FACED, GUNITE-FACED, AND "KNAP CONCRETE UNIT" WALLS by Cyrus C. Fishburn; Building Materials and Structures Report BMS 94; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 2, 1942.—20 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Wall Specimens; (a) Sponsors; (b) Materials; (i) Masonry backing-units; (ii) "Knap concrete units"; (iii) "Bondex" paint; (iv) Mortar; (v) Stucco; (vi) Gunite; (vii) Metal reinforcement for gunite-faced walls; (c) Construction of the walls; (i) Designation; (ii) Stucco-faced walls; (iii) Gunite-faced walls; (iv) "Knap concrete-unit" walls; 3. Testing of the Walls; (a) Water-permeability test; (i) Apparatus and method; (ii) Observations; (iii) Rating of performance; (b) Outdoor exposure; 4. Results of the Tests; (a) Permeability of stucco-faced walls; (i) Effect of temperature and humidity during the curing of stucco facings; (ii) Effect of time interval between application of the scratch and finish coats; (iii) Effect of kind of stucco facing and kind of backing unit; (b) Permeability of gunite-faced and "Knap concrete-unit" walls; (i) Gunite-faced walls; (ii) "Knap concrete-unit" walls; (c) Effects of outdoor exposure on structural soundness; (i) Stucco-faced walls; (ii) Gunite-faced walls; (iii) "Knap concrete-unit" walls; (d) Effects of weathering exposure on permeability; and 5. Summary and Conclusions.

ABSTRACT. The water permeability of small stucco- and gunite-faced walls and of walls built of "Knap concrete units" was measured before and after outdoor weathering. Six kinds of stucco facings, 2 thicknesses of gunite facings, and 7 kinds of units were represented in a group of 26 walls. All of the stucco- and gunite-faced walls were highly resistant to water penetration. Periods of outdoor exposure at Washington, D. C., varying from 16 to 49 months, had no important effect on permeability. The resistance to penetration of walls built of "Knap concrete units" was excellent after the walls were painted. For publications on the water permeability of *masonry walls*, including data obtained from tests on 8 stucco-faced walls, see BMS 41, BMS 55, and BMS 76, which are included in the present reading list as items (327), (333), and (339).

(347) TESTS OF CEMENT-WATER PAINTS AND OTHER WATERPROOFINGS FOR UNIT-MASONRY WALLS by Cyrus C. Fishburn and Douglas E. Parsons; Building Materials and Structures Report BMS 95; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 15, 1943.—37 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washton, D. C.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Sponsors; 4. Wall Specimens; (a) Masonry materials; (i) Bricks; (ii) Concrete units; (iii) Mortars; (b) Description and construction of the walls; (c) Designation of the walls and waterproofings; 5. Method of Testing; (a) Water-permeability test; (i) Apparatus and test method; (ii) Observations; (iii) Rating of performance; (b) Outdoor exposure; 6. Cement-Water Paints; (a) Materials and consistence; (b) Method of application and curing; (i) Preparation of the walls for painting; (ii) Kinds of brushes; (iii) Application of the paints; (iv) Curing of the coatings; (v) Condition of the cured paint coatings; (c) Some factors affecting the permeability of the cement-water paint coatings; (i) Kind of brush; (ii) Kind of backing and its moisture content; (iii) Paint consistency; (iv) Curing conditions; (v) Kind of paint and of admixtures; (vi) Use of a grout coat; (d) Effect of weathering exposure on permeability; (e) Discussion; 7. Proprietary Waterproofings Applied to the Exposed Faces of the Walls; (a) Pigmented surface coatings; (i) Aquaplex; (ii) Dricoat; (iii) Drye; (iv) Maure Brush-Tex and Plaster Special; (v) Tymstone; (vi) Varcraft; (vii) Discussion; (b) Colorless surface coatings; (i) Ampruf; (ii) Ceremul-W; (iii) Filporize; (iv) Maure liquid waterproofing; (v) Por-fil-ite; (vi) Sur-Ten-R; (vii) Discussion; 8. Larson Pre-Formed Waterproofing Units; (a) Construction of the specimens; (b) Effectiveness and durability; 9. Waterproofing Applied to the Unexposed Faces of the Walls; (a) Bituminous coatings; (i) Asphalt; (ii) Coal tar; (iii) Asphalt roof coating; (iv) Asphalt emulsion; (v) Bituminous plastic cement; (vi) Discussion; (b) Coatings of cementitious or of proprietary materials; (i) Portland-cement and sand brush coating; (ii) Iron-dust (iron powder and sal ammoniac) brush coating; (iii) Portland-cement and iron-dust brush coatings; (iv) Portland-cement, iron-dust, and sand trowel coatings; (v) Mortar parging; (vi) Armor coat; (vii) Dricoat; (viii) Discussion; 10. Conclusions; (a) Cement-water paints; (b) Emulsified resin and oil-base paints; (c) Colorless surface waterproofings; (d) Joint treatments; (e) Membrane waterproofing; and (f) Waterproofings on the inside (unexposed) faces of the walls.

ABSTRACT. One hundred thirty-one small, highly permeable masonry wall specimens built of concrete blocks or of bricks were treated with cement-water paints or with other waterproofings. The effectiveness of the treatments was measured by comparing the permeability of the walls, before and after treatment, when they were subjected to conditions simulating wind-driven rain. The durability of some treatments was observed by again testing the specimens after they had been weathered outdoors. The cement-water paints were effective waterproofings and could be applied to the best advantage on the walls of concrete blocks with stiff, rather than soft, brushes. The admixture of fine sand to the paint for the first coat applied to the coarse-textured concrete block increased the effectiveness and durability of the paints. Thick paint films resulting from the application of excessive amounts of paint were effective when first applied, but they were much less durable than thinner coatings. The permeability of the paint films of average thickness was lower after weathering than before. The colorless waterproofings were generally ineffective. Only one of the colorless waterproofings was satisfactory when first applied, but it was not durable and was much more permeable than the best cement-water paint treatments. The data confirm results previously obtained, which indicate that the only effective and durable method of waterproofing brick walls without changing their appearance was by repointing or grouting of the face joints. A series of built-in waterproof membranes was no effective waterproofing for the brick walls if the leakage through the facing was drained out of

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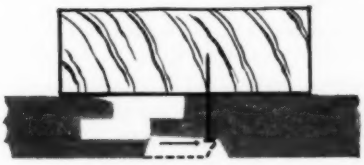

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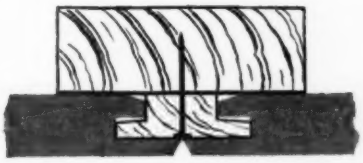

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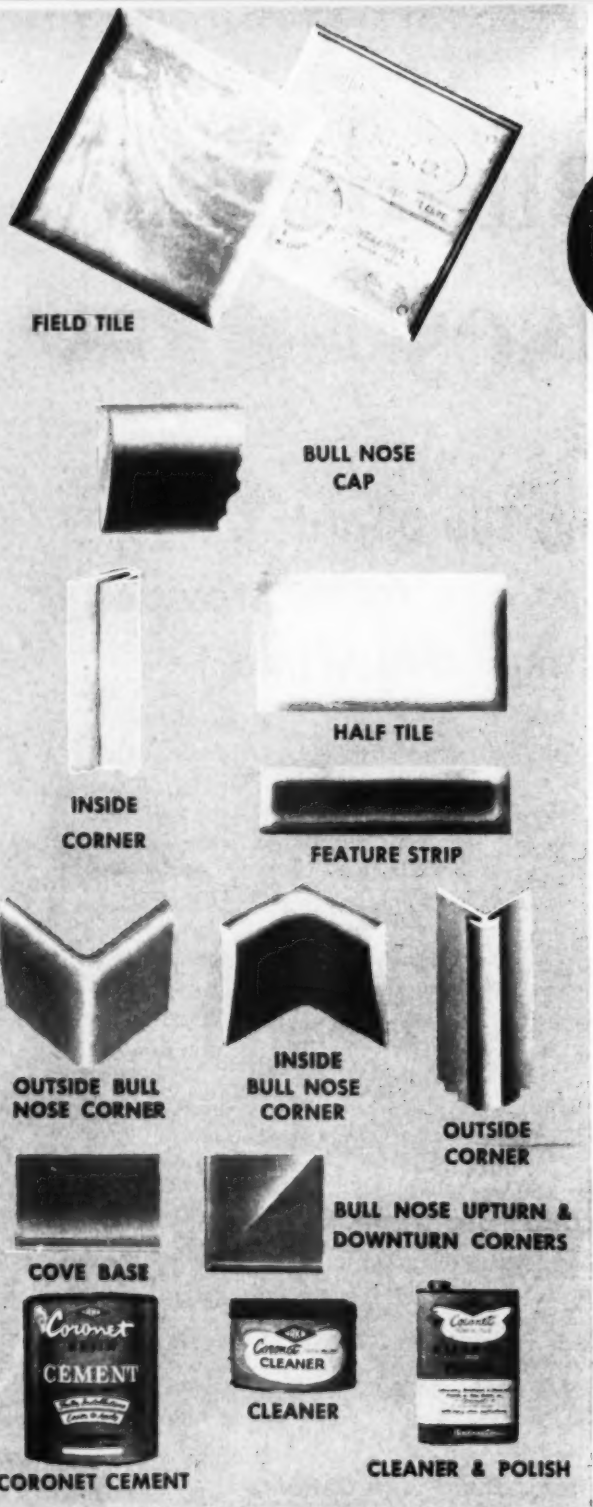

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the wall through weep holes at the bottom. The bituminous coatings applied to the inside faces of the walls were ineffective as waterproofings.

(348) EXPERIMENTAL DRY-WALL CONSTRUCTION WITH FIBER INSULATING BOARD by Charles G. Weber and Robert C. Reichel; Building Materials and Structures Report BMS 97; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 7, 1943.—8 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Construction and Testing of Experimental Walls; 3. Performance of Wall Construction; 4. Treatments of Joints; 5. Decorative Treatments; and 6. Summary and Conclusions.

ABSTRACT. The use of fiber insulating boards for the interior surfacing of walls and ceilings of houses has heretofore been limited with respect to choice of design or finish of the walls. The relative high expansivity of the material with variations in the humidity of the surrounding air has made paneling necessary because molding or batten strips were required to conceal unsightly joints. It was found possible to overcome the difficulty and make paneling unnecessary. This was done by eliminating the usual nailing and substituting the use of invisible, flexible fasteners that permit the entire surface of a wall or ceiling to expand and contract as a unit. Several methods of fastening the boards to obtain this result were developed. Use of them permitted the successful application of all of the decorative treatments normally applied to a plaster wall, without restriction as to surface design.

(349) STRUCTURAL AND HEAT-TRANSFER PROPERTIES OF "MULTIPLE BOX-GIRDER" PLYWOOD PANELS" FOR WALLS, FLOORS, AND ROOFS SPONSORED BY LOREN H. WITTNER by Herbert L. Whittemore, Vincent B. Phelan, and Richard S. Dill, with the collaboration of R. F. Luxford, Forest Products Laboratory; Building Materials and Structures Report BMS 99; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 11, 1943.—25 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat transfer; 4. Materials; (a) Wood; (i) Framing; (ii) Plywood, moisture-resistant type; (iii) Plywood, exterior type; (b) Fastenings; (i) Nails; (ii) Corrugated fasteners; (c) Glue; 5. Structural Properties; (a) Properties of wall; (i) Sponsor's statement; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Racking load; (b) Properties of floor; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (c) Properties of roof; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (d) Properties of second roof; (i) Sponsor's statement; (A) Description of specimen; (ii) Transverse load; (iii) Concentrated load; 6. Heat-Transfer Properties; (a) Walls; (i) Description of specimens; (ii) Test results; and 7. Additional Comments by Sponsor.

ABSTRACT. To determine structural and heat-transfer properties, tests were conducted at the request of the War Department on wall, floor, and roof specimens of "Multiple Box-Girder Plywood Panels." The specimens were constructed by gluing and nailing one sheet of plywood between two frames and facing the outer surfaces with other sheets of plywood. The longitudinal and transverse, members of the frames with the sheets of plywood formed closed cells which provided heat insulation. The wall specimens were subjected to compressive transverse concentrated, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The loads simulated the loads to which the elements are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables. The heat-transfer properties of three wall specimens were determined in a shielded hot-box heat-transfer apparatus.

(350) STRENGTH AND RESISTANCE TO CORROSION OF TIES FOR CAVITY WALLS by Cyrus C. Fishburn; Building Materials and Structures Report BMS 101; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1943.—9 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Specimens; (a) Materials; (i) Ties; (ii) Brick; (iii) Mortars; (iv) Cementitious and coal-tar-paint coatings; (b) Construction of specimens; (i) Compressive-strength specimens; (ii) Tensile-strength specimens; (iii) Indoor-weathering specimens; (iv) Outdoor-weathering specimens; 3. Method of Testing; (a) Tests for Structural Strength; (i) Compressive-strength test; (ii) Tensile-strength test; (b) Weathering tests; (i) Indoor-weathering exposure; (ii) Outdoor-weathering exposure; 4. Results of the Strength Tests; (a) Compressive strength; (i) Effect of shape and diameter of steel ties; (ii) Strength of specimens containing Copperweld, corrugated galvanized steel, and cement-asbestos ties; (b) Tensile strength; (c) Discussion of strength data; 5. Results of Weathering Tests; (a) Indoor exposure; (b) Outdoor exposure; 6. Summary and Conclusions; (a) Compressive strength; (b) Tensile strength; and (c) Corrosion of the ties.

ABSTRACT. The resistance to axial loads of ties for cavity walls was determined by testing steel and cement-asbestos ties when they were embedded at the ends in brick masonry. Fourteen different ties and three mortars were represented in a group of about 110 specimens. The ties, with one exception, were spaced one to every 3 ft. of wall area, provided connections of ample strength to resist the usual lateral forces to which cavity walls are subjected. The corrosion resistance of some of the steel ties was measured by exposing them when unprotected and when coated to accelerated and to outdoor weathering.

(351) STRUCTURAL PROPERTIES OF PREFABRICATED PLYWOOD LIGHTWEIGHT CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY THE DOUGLAS FIR PLYWOOD ASSOCIATION by Arnold Wexler, Sanford B. Newman and Vincent B. Phelan, with the collaboration of R. F. Luxford, Forest Products Laboratory, Forest Service, U. S. Department of Agriculture; Building Materials and Structures Report BMS 104; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 1, 1945.—48 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Part I: Lightweight Construction; (a) Sponsor and Product; (b) Specimens and tests; (c) Materials; (i) Wood; (A) Framing; (B) Plywood, moisture-resistant type; (C) Plywood, exterior type; (ii) Nails; (iii) Glue; (d) Properties of Wall; (i) Sponsor's statement; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (C) Comments; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Racking load; (e) Properties of partition (with sub-headings identical with those under (d)); (f) Properties of first floor; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (g) Properties of second floor (with sub-headings identical with those under (f)); (h) Properties of third floor; (i) Sponsor's statement; (A) Description of specimens; (B) Comments; (ii) Transverse load; (i) Properties of first roof; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (j) Properties of second roof; (i) Sponsor's statement; (A) Description of specimens; (B) Comments; (ii) Transverse load; (k) Additional comments by sponsor; 3. Part II: Commercial Type Construction; (a) Sponsor and product; (b) Specimens and tests; (c) Materials; (i) Wood; (A) Framing; (B) Plywood; (C) Furring; (D) Bevel siding; (ii) Sheathing paper; (iii) Nails; (iv) Staples; (v) Glue; (vi) Paint; (d) Properties of first wall; (i) Sponsor's statement; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (ii) Laboratory statement; (iii) Compressive load; (iv) Transverse load; (v) Concentrated load; (vi) Impact load; (vii) Racking load; (e) Properties of second wall; (i) Sponsor's statement; (A) Description of specimens; (ii) Racking load; (f) Properties of third wall; (i) Sponsor's statement; (A) Description of specimens; (B) Comments; (ii) Racking load; (g) Additional comments by sponsor.

ABSTRACT. For the program on the determination of structural properties of low-cost house construction, the Douglas Fir Plywood Association submitted 75 specimens representing prefabricated plywood building panels of both lightweight stress-skin and commercial design. Wall, partition, floor, and roof specimens were of lightweight stress-skin design. Specimens of commercial-type panels (2- by 4-in. studs) were for wall construction only, and furnished a basis of comparison of strength and weight with the light weight constructions. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; and the wall specimens of commercial type included three different constructions for determining resistance to racking. The partition specimens were subjected to compressive, transverse, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The floor and roof specimens included two different constructions for determining resistance to transverse loads. Transverse, concentrated, and impact loads were applied to both faces of wall specimens. The loads simulated the loads to which the elements are subjected in actual service. The deflection under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables.

(352) FIRE RESISTANCE OF STRUCTURAL CLAY TILE PARTITIONS by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 113; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 29, 1948.—19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Scope; 2. Materials and Tests; (a) Tile; (b) Mortar and Plaster; 3. Construction of Partitions; (a) Size; (b) Restraint; (c) Type of Construction; (d) Workmanship; (e) Mortar; (f) Plaster; (g) Storing and aging; 4. Equipment; (a) Restraining frames; (b) Partition-testing furnace; (c) Temperature-testing apparatus; (d) Deflection-measuring equipment; (e) Hose-stream equipment; 5. Method of Testing; 6. Results of Tests; (a) Log of tests; 7. Discussion of Results; (a) General effects of fire exposure; (b) Effect of clay used in manufacture of tiles; (c) Effect of method of laying; (d) Effect of plaster; (e) Effect of design of tiles; (f) Resistance to the hose stream; and 8. Summary.

ABSTRACT. This report indicated the fire resistance that can be expected of structural clay tiles designed for use in partitions, whereas National Bureau of Standards Research Paper 37: FIRE RESISTANCE OF HOLLOW LOAD-BEARING WALL TILE gave the results of fire tests of structural clay tile designed for loadbearing walls. The present report gives the results of fire-endurance or hose-stream tests of 20 structural clay tile partitions tested at the National Bureau of Standards. The partitions were 3, 4 and 6 in. thick, exclusive of the

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plaster. Some of the partitions were built of tile laid on end; some, with the tile laid on side; and some, with the tile laid alternately on side and on end. The fire-endurance and the hose-stream tests in this series were made on the same partitions. The hose-stream tests indicated that tile partitions can be considered as meeting the hose-stream requirements applicable to their respective fire-resistance ratings. The impetus given to fire-safe construction as the consequence of disastrous fires in buildings of residential occupancy creates a particular demand for the information contained in this report.

(353) FIRE RESISTANCE OF WALLS OF LIGHTWEIGHT -AGGREGATE CONCRETE MASONRY UNITS by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 117; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1, 1950.—23 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Scope; 2. Materials; (a) Concrete masonry units; (i) Cinder concrete units; (ii) Pumice concrete units; (iii) Expanded-slag concrete units; (iv) Expanded-shale concrete units; (b) Mortar and plaster; (c) Tests of Materials; 3. Test Walls; (a) Construction; (b) Size; (c) Restraint and loading; (d) Workmanship; (e) Wall finish; (f) Storing and aging; 4. Method of Testing and Equipment; (a) Wall-testing furnace; (b) Temperatures; (c) Deflections; (d) Hose stream; 5. Results; (a) Log of tests; 6. Discussion of Results; (a) Effect of wall thickness; (b) Effect of type of aggregate; (c) Effect of moisture content; (d) Effect of combustible framed-in members; (e) Effect of loading; (f) Resistance to the hose stream; and 7. Summary.

ABSTRACT. The results of fire-endurance and hose-stream tests of 16 walls of lightweight aggregate concrete masonry units are given. The aggregates used in the manufacture of the units were cinders, expanded shale, pumice, or expanded slag. The constructions ranged from 3-in. nonload-bearing partitions to 10-in. load-bearing walls with no framed-in members and included brick-faced exterior bearing walls. The fire-resistant values indicated by the tests varied with the thickness of the wall, the moisture content at the time of the test, and the kind of aggregate used in the units and ranged from 1 hr 9 min for a 4-in. unplastered partition to 7 hr 3 min for an 8-in. bearing wall faced with brick and backed with 4-in. lightweight concrete units. Hose-stream tests conducted at the end of the fire-endurance tests indicated that walls of lightweight aggregate concrete masonry units meet the requirements of this test for their respective fire-resistance values. As concrete masonry units made with lightweight aggregates are used extensively in both residential and commercial buildings, the information contained in this report should be of interest to building regulatory bodies in setting up building code requirements pertaining to exits, shaft enclosures, and fire division walls.

(354) FIRE RESISTANCE OF WALLS OF GRAVEL-AGGREGATE CONCRETE MASONRY UNITS by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 120; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 30, 1951.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Scope; 2. Materials; (a) Concrete masonry units; (i) Aggregates; (ii) Proportions; (iii) Molding and curing; (b) Mortar and plaster; (c) Tests; 3. Test Walls; (a) Construction; (b) Size; (c) Restraint and loading; (d) Workmanship; (e) Finish; (f) Storing and aging; 4. Method of Testing and Equipment; (a) Wall-testing furnace; (b) Tempera-

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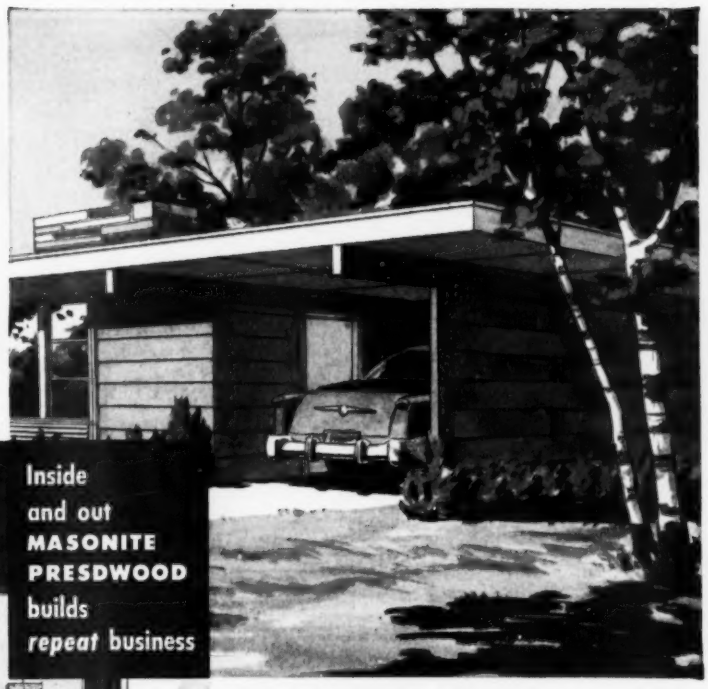

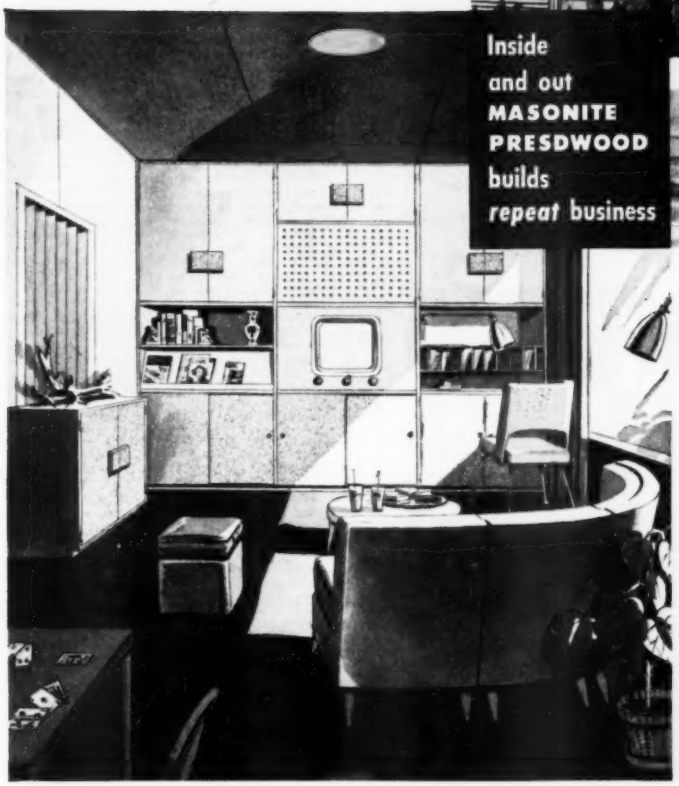

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ture measurements; (c) Deflection measurements; (d) Hose-stream test; 5. Results; (a) Log of tests; 6. Discussion of Results; (a) Effect of type of aggregate; (b) Effect of loading and restraint on type of failure; (c) Effect of strength of unit; (d) Effect of plaster; (e) Performance of cavity-type construction; (f) Effect of combustible framed-in members; (g) Resistance to hose-stream test; and 7. Summary.

ABSTRACT. Fire-endurance test results for 12 walls of gravel-aggregate concrete masonry units are given and hose-stream test results for three of the walls. The concrete units used in five of the walls were made with calcareous aggregates representing the group of natural aggregates less susceptible to damage by fire. The units used in the other seven walls were made with siliceous aggregates representing the group more susceptible to fire damage. The constructions included 4-in. nonload-bearing partitions and 8- to 12-in. load-bearing walls. The fire resistance of the 4-in. unplastered partition of units made with calcareous aggregates and of the 4- and 8-in. walls of units made with siliceous aggregates was limited to 1 hr or less either by collapse or load failure. The values for the 4-in. plastered partition and the 8-in. load-bearing walls made with calcareous aggregates ranged from 1 hr 51 min for the partition to 3 hr 57 min for one of the 8-in. load-bearing walls, and were determined by the temperature rise on the unexposed surface. The values for the 12-in. single-unit plastered wall and the 12-in. two-unit wall of siliceous aggregates were 5 hr or more and were limited by the temperature rise on the unexposed surface. The hose-stream tests conducted at the end of the fire-endurance tests indicated that masonry walls built of units made with calcareous aggregates would meet the requirements of that test. Walls of units made with siliceous aggregates that were 8 in. or less in thickness in most cases had fire-endurance values of less than 1 hr and did not require the hose-stream test. Walls of units thicker than 8 in. made with siliceous aggregates that withstood long fire exposure may be expected to meet the hose-stream test requirements. NOTE: This is the second report issued by the National Bureau of Standards dealing with the fire resistance of walls of concrete masonry units. The first report, BMS-117 (item 353 of this reading list) is entitled FIRE RESISTANCE OF WALLS OF LIGHTWEIGHT AGGREGATE CONCRETE MASONRY UNITS, that is, of units made with cinder, pumice, expanded slag, or expanded shale aggregates. The information given in the present report should be helpful to those using locally-produced gravel-aggregate concrete masonry units in residential and commercial buildings.

(355) FIRE TESTS OF WOOD-FRAMED WALLS AND PARTITIONS WITH ASBESTOS-CEMENT FACINGS by Nolan D. Mitchell; Building Materials and Structures Report BMS 123; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 10, 1951.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

ABSTRACT. Three walls and four partitions with asbestos-cement facings on wood frames were subjected to fire-endurance tests and one wall and three partitions to fire and hose-stream tests. The partitions had asbestos-cement sheet facings on both sides over different internal constructions. The edges of the studs of some of the partitions were lined with asbestos paper or gypsum-board strips. One partition had no insulation, four had mineral-wool batt fill between the studs; two had gypsum-board sheathing underlying the asbestos-cement sheet facings. The walls had matched diagonal sheathing, asphalt-saturated asbestos felt, and asbestos-cement shingles as the exterior facings. The interior facings were of asbestos-cement sheets or asbestos-cement insulated sheathing. Three walls had mineral-wool batt insulation between the studs. Fire-endurance limits for the partitions ranged from 9 to 90 minutes.

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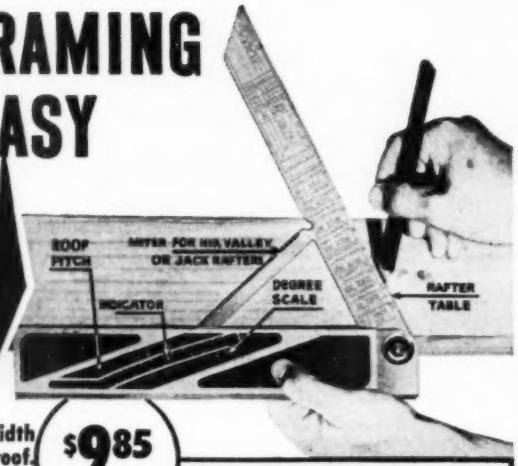

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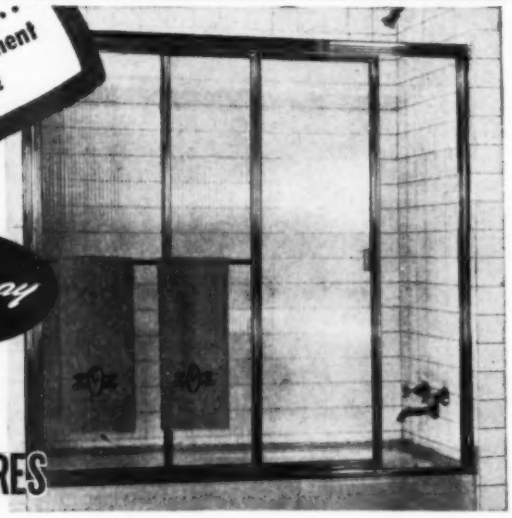

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Failure by a limiting rise of temperature was not a determinant in any of the tests of the walls. The fire exposures ranged from 38 to 85 minutes. Limits by failure under load for the walls ranged from 32 to 79 minutes. Failure from impact of the hose stream occurred in one of three tests of the partitions and in the single hose-stream test of a wall. Walls and partitions that retard the spread of fire contribute to the safety of nonfire-resistive buildings. For this reason the performance of wood-framed walls and partitions with facings of asbestos-cement shingles or sheets, when subjected to fire tests under standard procedures, were determined and presented in this report. The information is intended to aid building authorities and regulatory agencies in evaluating the fire-resistance characteristics of constructions of these types and give the prospective builder a basis for the selection of constructions that will meet given requirements with respect to fire resistance.

(356) STONE EXPOSURE TEST WALL by Daniel W. Kessler and R. E. Anderson; Building Materials and Structures Report BMS 125; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 20, 1951.—41 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction Features; 3. Orientation and Exposure Conditions; 4. Arrangement of Stones in Wall; 5. Problems under Study; 6. Methods of Study; a. Weathering Effects; b. Color Changes; c. Dimensional Changes; and d. Warpage; 7. Maintenance of Records; 8. Catalog of Stones in Wall (with Explanation of Tables).

ABSTRACT. A test wall was built at the National Bureau of Standards during the months of September, October and November 1948 in a plot set aside on the Bureau grounds for weathering tests of structural materials. The wall contains 2,059 samples of stone in the front, or south face, and 293 in the back and ends; of these, 2,032 were domestic stones supplied by 47 States; and 320 were foreign samples supplied by 16 countries. Stones in the east half of the south face are set in lime mortar with the exception of those in the base. All other stones in the wall are set in a portland cement mortar with a small addition of whiting. The core of the wall is of concrete, reinforced with steel bars. The wall contains 30 distinct types of stones, some of which are not commonly used for building purposes. There are many varieties of the usual types, such as marble, limestone, sandstone, and granite. The variations in composition or physical properties, such as strength, porosity, and density, will be of value in studying the relation between such properties and weather resistance. The main problem is to determine the nature and relative severity of the various agents that cause deterioration and how they affect different stones. Certain structural features of the wall, such as length changes, warpage, back waterproofing, and grade waterproofing are being studied in relation to weathering and discoloration on the stonework. Each block is identified by a number determined by its position in the wall. This eliminates the necessity of frequent relabeling. The various samples are described under the wall numbers in tables that give specific information on location of stone deposits, classification, color, texture, and geological age, when known. The exposure test wall project is a long-time, cooperative investigation between the National Bureau of Standards and Committee C-18 on National Building Stones of the American Society for Testing Materials.

(357) FIRE TESTS OF GUNITE SLABS AND PARTITIONS by Nolan D. Mitchell; Building Materials and Structures Report BMS 131; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 12, 1952.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

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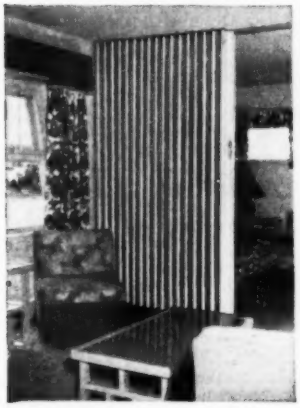

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Sizes: Width		Height	Stack
2' 6"	x	6' 8½" or 6' 6"	4⅜"
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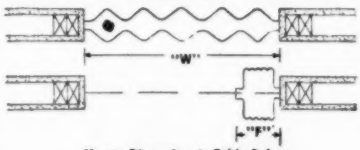
Doors may be used as pairs.



Key to Dimensions in Table Below
"W" "F"

In Sizes to Fit Every Requirement
STOCK DOORS—Available from distributor's stock

Name	Width "W"	Height "H"	Stack "F"
Leader	2'-6"	6'-8½"	6"
Master	3'-0"	6'-8½"	6¾"
Harding	3'-7"	6'-8½"	7½"
Wilson	2'-6"	6'-6"	6"
Burton	3'-0"	6'-6"	6¾"
Morris	3'-7"	6'-6"	7½"
STANDARD DOORS			
Duke	2'-6"	6'-8½"	6"
Regent	3'-0"	6'-8½"	6¾"
Norfolk	3'-7"	6'-8½"	7½"
Colton	4'-2"	6'-8½"	8¼"
Morton	4'-9"	6'-8½"	9"
Shelton	5'-4"	6'-8½"	9¾"
Dixon	5'-11"	6'-8½"	10½"
Alden	6'-6"	6'-8½"	11¼"
Clinton	7'-1"	6'-8½"	12"
Winton	7'-8"	6'-8½"	12¾"
Morgan	8'-3"	6'-8½"	13½"
Broadmoor	8'-10"	6'-8½"	14¼"
Leeds	3'-0"	8'-0"	6¾"
LaGrange	3'-7"	8'-0"	7½"
Logan	4'-2"	8'-0"	8¼"
Leland	4'-9"	8'-0"	9"
Longfellow	5'-4"	8'-0"	9¾"
Livingston	5'-11"	8'-0"	10½"
Lacomb	6'-6"	8'-0"	11¼"
Lincoln	7'-1"	8'-0"	12"
Lamont	7'-8"	8'-0"	12¾"
Lansing	8'-3"	8'-0"	13½"
Lexington	8'-10"	8'-0"	14¼"
Liverpool	9'-5"	8'-0"	15"
Lorain	10'-0"	8'-0"	15¾"
Lindell	10'-7"	8'-0"	16½"
Lancaster	11'-2"	8'-0"	17¼"

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City.....*County*.....*State*.....

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction of Slabs and Partitions; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

ABSTRACT. Eight slabs and four partitions made with gunite concrete on wire-fabric reinforcement were subjected to fire-endurance tests at the National Bureau of Standards. The slabs were made with aggregates composed of sand and wood sawdust, the sawdust ranging from 0 to 50 percent by volume of the aggregate. The aggregate for two partitions was sand, a third had a minor amount of asbestos added, and that of the fourth consisted of equal volumes of sand and sawdust. Fire-endurance limits for the slabs increased almost linearly with increased percentages of sawdust incorporated into the mix. Partitions made with sand aggregate only in the concrete or with the addition of a small amount of asbestos fiber to the concrete showed early failure by spalling and holing through. The explosive violence of the disruptions suggested the presence of entrapped water in the dense concrete. A partition made with a concrete having equal volumes of sawdust and sand as aggregates did not spall and failed by a limiting 325 deg F rise of temperature at a single point on the unexposed side after 70 min of fire exposure, whereas the partitions having asbestos and sand or sand only as the aggregate reached fire-endurance limits through explosive spalling in 16 to 26 min. Subsequent to the fire-endurance test, the partition with sawdust successfully withstood the application of the hose-stream test. The effect of the sawdust is to lower the thermal conductivity of the concrete and increase its porosity, thus making easier the escape of moisture in the form of vapor. These tests were undertaken because the use of noncombustible constructions for restricting the spread of fire makes necessary a knowledge of the fire-resistive properties of the materials used in them. In addition to reporting the fire-endurance limits of gunite of conventional cement and sand mix, a means of improving the fire resistance of this type of concrete by modifying the aggregate is presented. Such modifications would probably be effective in other types of concrete as well.

(358) PROPERTIES OF CAVITY WALLS by Daniel S. Goalwin; Building Materials and Structures Report BMS 136; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1953.—15 pages; price 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Cavity-Wall Design; 3. Materials; 4. Construction of Walls; (a) Workmanship; (b) Construction details; 5. Structural Properties; (a) Compressive load; (b) Transverse load; (c) Concentrated load; (d) Impact load; (e) Racking load; 6. Water Permeability; (a) Method of testing; (b) Test results; 7. Heat Transfer; (a) Test equipment and procedure; (b) Test results; 8. Fire Resistance; (a) Test specimens; (b) Test results; 9. Discussion and Summary; and 10. References.

ABSTRACT. A compilation is given of data on the performance characteristics of cavity walls, including previously published and some hitherto unpublished material. Structural tests were conducted on cavity walls of brick, concrete block, and structural clay tile. Other tests were made on the properties of wall ties, rain penetrability, thermal transmittance, and fire resistance. Under certain conditions of loading, compressive strength, resistance to concentrated load, racking load, and impact strength were found to be roughly equivalent to those of conventional walls using the same quantity and quality of material. With respect to resistance to transverse load, the cavity walls were somewhat inferior. When properly flashed and with suitable weep holes, the cavity walls had satisfactory resistance to rain penetration. Their thermal transmittance was about 23 percent lower than for similar solid walls. Their resistance to the effect of fire was satisfactory provided certain limiting loading conditions were met. (A cavity wall is a form of masonry wall construction consisting of two parallel wythes, or leaves, of masonry separated by a continuous air space or cavity, usually about 2 in. wide.)

(b) Floors

(401) STRUCTURAL PROPERTIES OF ONE OF THE "KEYSTONE BEAM STEEL FLOOR" CONSTRUCTIONS SPONSORED BY THE H. H. ROBERTSON COMPANY by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 10; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 29, 1938.—8 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Floor Properties; (a) Sponsor's Statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 5. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the H. H. Robertson Co. submitted six specimens representing one of their cellular sheet-steel floor constructions. The specimens were fabricated with *"FKX 18-18"* panels covered by a concrete fill and a "Hubbellite" composition finish floor. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

(402) STRUCTURAL PROPERTIES OF "WHEELING LONG-SPAN STEEL FLOOR" CONSTRUCTION SPONSORED BY THE WHEELING CORRUGATING COMPANY by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 15; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 21, 1939.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; and 5. Selected references.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Wheeling Corrugating Co. submitted six specimens representing their "Wheeling Long-Span Steel Floor" construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

(411) STRUCTURAL PROPERTIES OF A "TILECRETE" FLOOR CONSTRUCTION SPONSORED BY TILECRETE FLOORS, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 16; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 24, 1939.—6 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; and 5. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, Tilecrete Floors, Inc., submitted six specimens representing their "Tilecrete" floor construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated-load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

(412) STRUCTURAL PROPERTIES OF "TILECRETE TYPE A" FLOOR CONSTRUCTION SPONSORED BY THE TILECRETE CO. by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 51; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 4, 1940.—11 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Comments; (b) Transverse load; (c) Impact load; and (d) Concentrated load.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Tilecrete Co. submitted six specimens representing its "Tilecrete Type A" floor construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of the loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The strength under transverse load was also determined. The results are presented in graphs and in a table.

(413) STRUCTURAL PROPERTIES OF A PRECAST JOIST CONCRETE FLOOR CONSTRUCTION SPONSORED BY THE PORTLAND CEMENT ASSOCIATION by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 62; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 31, 1940; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 5. Additional Comments by Sponsor; and 6. Selected References.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Portland Cement Association, Chicago, Ill., submitted six specimens representing a floor construction, which consisted of precast concrete joists and bridging and a reinforced-concrete floor slab. The specimens were subjected to transverse, impact, and concentrated loads. All loads were applied to the upper faces of the specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and in a table.

(414) FIRE RESISTANCE OF CONCRETE FLOORS by Daniel S. Goalwin; Building Materials and Structures Report BMS 134; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued December 26, 1952.–11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Methods; 3. Test Results; 4. Discussion; (a) Type of aggregate; (b) Effect of restraining forces; (c) Moisture content; (d) Soffit protection; (e) Joists; (f) Effect of slab thickness and density; (g) General; and 5. References.
ABSTRACT. The results of eleven exploratory and four full-scale fire-endurance tests on reinforced concrete floors are given. All the slabs were monolithic and were made with gravel aggregates; six consisted of slabs cast to engage the tops of precast lightweight concrete joists. The effects of moisture content, aggregate type, and soffit protection are discussed. A general equation for the relation between slab thickness and fire resistance for different aggregates is proposed. The information is intended to aid building authorities and regulatory groups in evaluating the fire-resistance characteristics of concrete floor constructions and to give designers and builders a basis for the selection of constructions that will meet given requirements with respect to fire resistance.

(421) PROPERTIES OF EXPERIMENTAL WOOD-BASE HOUSE FLOORING MATERIALS (Including a Tentative Test Procedure for Flooring)–Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis, and compilation of the result here reported: W. E. Bonser and R. F. Luxford (engineers), and F. A. Strenge (technical writer). The work was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with Mr. Luxford's assistance. The project was sponsored by the Housing and Home Finance Agency, Division of Standardized Building Codes and Material, of which Leonard G. Haeger was the Director; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C., in November 1948, "Technical Paper No. 11."–18 pages.

Includes a consideration of: 1. Summary; 2. Materials Tested; 3. Methods of Test; (a) Accelerated aging; (b) Water absorption and linear expansion; (c) Standard hardness test; (d) Drop test; (e) Traffic test; (f) Heavy rolling load; (g) Indentation test; (h) Abrasion; (i) Surface wetting; (j) Shrinkage test; (k) Water permeability; (l) Turpentine permeability; 4. Results of Tests.
ABSTRACT.A report covering procedures and results of tests made of the mechanical and physical properties of several types of flooring materials to provide comparative information on resistance to various loads, surface wear, moisture, and aging characteristics. Particular attention is paid to the development of testing methods applicable to the evaluation of new flooring materials.

(c) Floor Coverings

(441) PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART I by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 34; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued January 15, 1940.–14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Test Installations; 5. Results; 6. Comments; and 7. Selected References.
ABSTRACT. A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on 40 different test installations involving 12 floor coverings and 11 adhesives. The floor coverings tested included several kinds of linoleum, felt-base floor coverings having various wearing surfaces, pressed fiberboard, and three strip-wood floors. The bonding agents used included lignin pastes, various resinous cements, casein-latex cement, asphaltic cements, and nails. Installations on both a concrete subfloor and wood subfloor were tested. Descriptions of the testing equipment and test installations are given. Results showing the relative magnitude of the depressions in the floor coverings caused by the testing equipment are summarized and presented in tables. The appearance of the various installations after 48,000 cycles of the testing equipment is discussed and representative photographs are shown.

(442) PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART 2 by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 43; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued February 13, 1940.–20 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Installations; 5. Results; 6. Comments; and 7. Selected References.
ABSTRACT. This is a supplement to BMS Report 34: PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING PART I, by the same authors, for which see item (441) of this reading list. In this second series, 40 test installations were subjected to a performance test in the floor-testing chamber of the National Bureau of Standards. Included in the test were battleship linoleum, rubber in sheet and tile form, felt-base floor coverings having various wearing surfaces, three monolithic floors, and a number of asphalt tiles. The bonding agents used included lignin pastes, resinous cements, latex adhesives, rubber cements, cut-back asphalt, and asphalt emulsions. Installations were made on both concrete and wood subfloors. Descriptions of the testing equipment and test installations are given. Results showing the relative depth of the depressions in the floor coverings during the test are presented in tables. Brief summaries showing the performance of the test panels are given, and the appearance of the different floor coverings after 48,000 cycles of the testing equipment is shown by representative photographs.

(443) PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART 3 by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 68; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued January 31, 1941.–23 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Test Installations; 5. Results; 6. Summary; 7. Comments and Conclusions; and 8. Selected References.
ABSTRACT. A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on a third series of 40 test installations. Included in the test were linoleums in sheet and tile form, cork-composition tile, sheet rubber, rubber tile, asphalt tiles, fiber-board tiles, felt-base floor coverings having various wearing surfaces, three monolithic floors, and a number of wood floors. The bonding agents used included lignin pastes, sumar-resin cement, alumina cement-latex paste, rubber cements, various asphaltic adhesives, and nails. Installations were made on concrete, strip-wood, and plywood subfloors. Installations on strip-wood subfloors were made with underlays of dry and asphalt-saturated lining felts. Descriptions of the testing equipment and test installations are given. Results showing the relative depth of the depressions in the floor coverings during the test are presented in tables. Brief summaries of the manner in which the various test installations performed are given, and photographs of the test panels after 48,000 cycles of the testing equipment are shown.

(444) PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PAR 4 by Percy A. Sigler and Elmer A Koerner; Building Materials and Structures Report BMS 80; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued March 2, 1942.–21 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-testing Chamber, Equipment, and Procedure; 3. Description of Test Installations; 4. Results; 5. Summary and Discussion of Results; (a) Cork tiles; (b) Rubber tile; (c) Asphalt tile; (d) Linoleums; (e) Felt-backed floor coverings with wearing surfaces; (i) Marbleized linoleum composition; (ii) Cellulose nitrate composition; (iii) Asphalt composition; (iv) Enamel; (v) Resin-treated cotton-linters sheet; (f) Cotton duck; (g) Maple and pecan unit-blocks; (h) Strip maple; (i) Asphalt and coal-tar mastics; (j) Alumina cement rubber latex composition; (k) Magnesium oxychloride composition; (l) Portland cement concrete; and 6. Recommendations and Conclusions.
ABSTRACT. A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on a fourth series of 40 different installations involving 26 different floor coverings. Specimens of most of the floor coverings were installed on both a concrete and a wood subfloor. Included in the test were cork tiles, rubber tile containing aluminum oxide aggregate, asphalt tile, marbleized linoleums, felt-backed floor coverings having various wearing surfaces, strip maples, maple unit-block, pecan unit-block, asphalt mastic, coal-tar mastic, alumina cement-rubber latex composition, magnesium oxychloride composition, and 1:2:4 portland cement concrete. Different underlays and adhesives were also included in the test. The test installations are described and results showing the depth of the depressions in the floor coverings made by the equipment are presented in tables. Brief summaries of the manner in which the various installations performed are given, and their appearance at the end of the test is shown by photographs. A few generalized comments and conclusions are made. For the previous reports of this series of tests see BMS 34 (item 441 of this reading list), BMS 43 (item 442) and BMS 68 (item 443).

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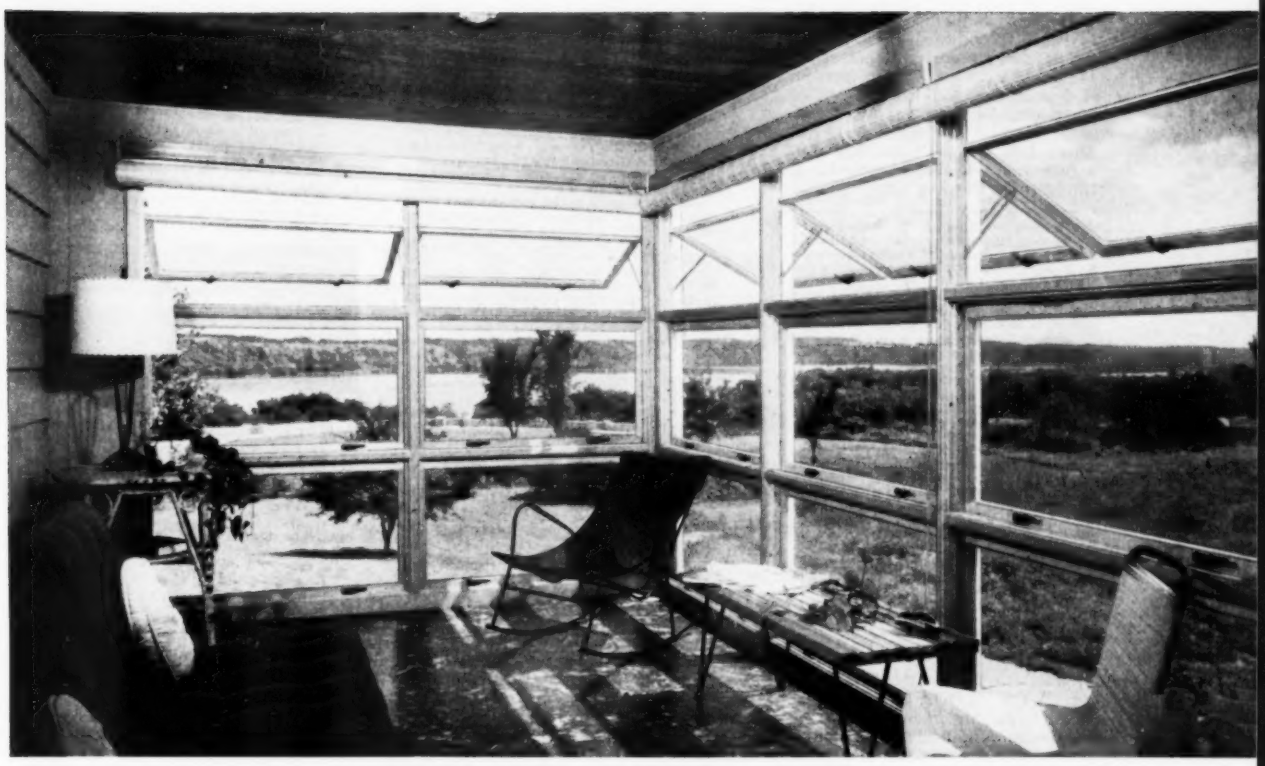

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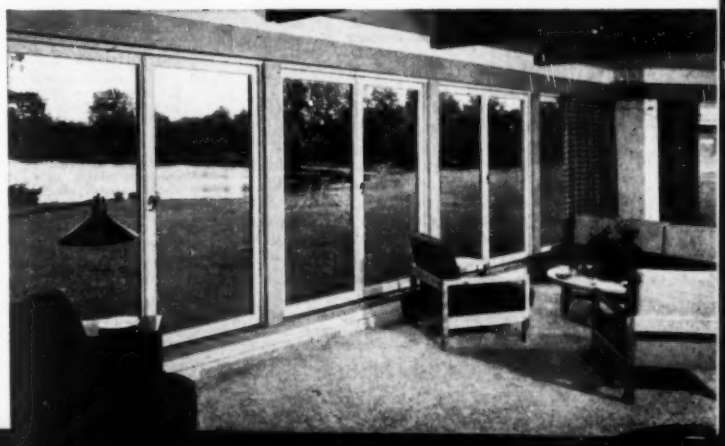


Andersen Gliding Window. This revolutionary Gliding Window brings horizontal operation with sash sliding easily from side to side in plastic tracks. This principle allows sizes up to nearly 6′ high by 5½′ wide . . . picture window effect with operating sash.

(445) INDENTATION AND RECOVERY OF LOW COST FLOOR COVERINGS by P. A. Sigler and Myrtle B. Woodward; Building Materials and Structures Report BMS 14; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 7, 1939.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Testing Equipment; 3. Test Procedure; 4. Description of Floor Coverings; 5. Results; and 6. Summary and Conclusions.

ABSTRACT. Indentation and recovery determinations for loads ranging from 25 pounds to 200 pounds on a flat-ended pin ¼ inch in diameter were made on 23 floor coverings at a relative humidity of 65 percent and temperature of 72° F. Indentation readings were taken for each load at intervals of time up to 30 minutes and then recovery readings at intervals of time up to 120 minutes. Various types of floor coverings were tested, such as asphalt tile, pressed fiber boards, linoleums, felt-base floor coverings having various wearing surfaces, rubber, and wood. A description of the apparatus and the procedure used is given. The results are presented in graphic form to show the relative merits of the various floor coverings with respect to initial and 30-minute indentation under various loads and the recovery after removal of the load. In other words, the chart shows the relative value of the various floor coverings with respect to comfort in walking in comparison with the extent to which they are permanented under abuse.

(446) INDENTATION CHARACTERISTICS OF FLOOR COVERINGS by Percy A. Sigler and Myrtle B. Woodward; Building Materials and Structures Report BMS 73; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 15, 1941.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment and Procedure; 3. Description of Samples; 4. Summary of Results; and 5. Comments. (The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, wood, fiberboard, and monolithic compositions. Variations in composition and thickness were included.)

ABSTRACT. The indentation characteristics of 64 floor coverings were determined. Tests were conducted on specimens conditioned in an atmosphere of 65 percent relative humidity and 72° F. temperature, on specimens after exposure to accelerated aging, and on specimens at an elevated temperature of 90° F. The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, wood, fiberboard, and monolithic compositions. Variations in composition and thickness were included in many of the types. The apparatus and the procedures are briefly described. Summaries of the results are presented to show the relative merits of the various floor coverings with respect to comfort value, permanent indentation under a concentrated load, and recovery. This report supplements report BMS 14, which is item (445) of this reading list.

(447) DIMENSIONAL CHANGES OF FLOOR COVERINGS WITH CHANGES IN RELATIVE HUMIDITY AND TEMPERATURE by Percy A. Sigler, Robert L. Martens, and Elmer A. Koerner; Building Materials and Structures Report BMS 85; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 15, 1942.—7 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Test Procedure and Equipment; (a) Specimens exposed to different relative humidities; (b) Specimens exposed to different temperatures; 3. Description of Materials Tested; 4. Results; (a) Effect of relative humidity on dimensions; (b) Effect of temperature on dimensions; and 5. Summary and Conclusions.

ABSTRACT. The effects of changes in atmospheric conditions on the dimensions of floor coverings were investigated. The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, strip wood, plywood, fiberboard, and several monolithic compositions, such as cement, mortar and magnesium oxychloride. Dimensional changes due to a variation in relative humidity from 8 to 86 percent and those due to a variation in temperature from 32° to 90° F. were determined. The floor coverings, testing equipment, and procedure are described, and the results are presented in graphic form. Changes in relative humidity affect the dimensions of many floor coverings to a much greater extent than do changes in temperature within the range usually encountered in structures. Such floor coverings as strip wood, linoleum, and felt base show much greater dimensional change in the across-grain or across-machine direction than in the grain or machine direction. The several monolithic compositions showed relatively small changes in dimensions.

(448) RELATIVE SLIPPERINESS OF FLOOR AND DECK SURFACES by Percy A. Sigler; Building Materials and Structures Report BMS 100; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1943.—12 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Apparatus; 3. Test Procedure; 4. Floor Surface Conditions; 5. Materials Tested and Results; and 6. Summary of Results and Comments.

ABSTRACT. A new pendulum-type machine and a method for determining the relative slipperiness of floor surfaces under various conditions are described. The surfaces were tested when dry and clean, dry and dirty, wet and clean, wet and dirty, wet and soapy, and in a few cases, oily. The results of tests of various floor materials are given, including such general types as stone, terrazzo, cement-mortar, magnesite, ceramic tile, metal, asphalt, rubber, linoleum, and wood. The surfaces of the materials were tested after grinding them with No. 180 silicon carbide. Tests were also made of the original surfaces of many of the materials. The test data show the effect of different wax finishes on the antislip properties of several selected floor materials. In general, considerable difference in slipperiness was found between dry and wet surfaces. Most of the floor materials showed satisfactory antislip properties when dry. Many would be classed as hazardous when wet. (Some of the test data show the effect of abrasives, and of corrugations and embossments, on antislip properties of, for example, ceramic tiles.)

(456) PROPERTIES OF ADHESIVES FOR FLOOR COVERINGS by Percy A. Sigler and Robert L. Martens; Building Materials and Structures Report BMS 59; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 19, 1940.—8 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Methods of Testing; (a) Outline of procedure; (b) Adhesive-strength tests; (i) Straight-pull test on dry specimens; (ii) Straight-pull test on specimens exposed to water; (iii) Stripping-pull test on dry specimens; (c) Exposure tests on concrete slabs; (i) Linoleum bonded to concrete and exposed to dampness; (ii) Permeability of coatings to moisture; 3. Results; 4. Summary and Conclusions; and 5. Selected References.

ABSTRACT. An investigation was conducted on adhesives and primers used for bonding linoleum and other floor coverings to subfloors. Tests were made to determine their resistance to both a straight pull and a stripping pull when used to bond ⅛-inch battleship linoleum to concrete, wood, and metal. Specimens were tested in a dry condition and after exposure to moisture. Pieces of linoleum bonded to concrete slabs with selected adhesives and primers were inspected periodically during exposure to moisture. The methods of testing are described and the results are presented in tables. In view of the results of this investigation it would appear advisable in new constructions to waterproof concrete floors which are in contact with the ground. Failure of a floor covering to adhere to the subfloor has a considerable effect on the ability of the floor covering to withstand service. In view of the increasing desire for floor coverings in basements, the moisture resisting qualities of commercial adhesives and of a few experimental preparations were investigated.

(d) Fiber Building Boards

(461) ACCELERATED AGING OF FIBER BUILDING BOARDS by Daniel A. Jessup, Samuel G. Weissberg and Charles G. Weber; Building Materials and Structures Report BMS 4; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1938.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Testing for Stability; (a) Accelerated aging treatment; (b) Measurement of aging effects; (c) Miscellaneous exposures; 3. Results of Accelerated Aging; 4. Summary and Conclusions.

ABSTRACT. Fiber building boards are being tested to determine whether they have satisfactory permanence to justify their wide use in low-cost house construction. Accelerated aging is being used because this information is urgently needed, inasmuch as it would take years to obtain the effects of normal aging. The aging treatments include cycles of wetting, drying, freezing, and heating in dry air, and the stability is judged by the changes in physical and chemical properties. The properties most affected by aging are water absorption, nail-holding power, flexural strength, and permeability to air. Results thus far obtained are favorable. After being subjected to the aging cycles for a total of 300 hours, only two of the boards tested showed serious loss of strength and other desirable properties, despite the drastic nature of the treatments. This "progress report" on vegetable fiber boards describes accelerated aging tests based on the results of the Bureau's experience in the use of similar tests on paper and other cellulose materials.

(NOTE: For a description of tests made to determine the thermal conductivity, water absorption, air permeability, and other properties of such boards, *see* report BMS 13: "SOME FIBER BUILDING BOARDS OF CURRENT MANUFACTURE," item (462) in this list.)

(462) SOME FIBER BUILDING BOARDS OF CURRENT MANUFACTURE by Charles G. Weber and Samuel G. Weissberg; Building Materials and Structures Report BMS 13; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 23, 1939.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Boards Tested; 3. Properties and Testing; (a) Thickness and Density; (b) Insulating Properties; (c) Flexural properties; (d) Water absorption; (e) Permeability to water and air; (f) Linear expansion with change in humidity; (g) Nail-holding strength; and 4. Summary.

ABSTRACT. This article describes the fiber building boards that are under study in connection with a research on materials for low-cost house construction. Test data are given showing the properties of the different boards, and the test methods

are described. Tests were made for thickness, density, thermal conductivity, flexural properties, water absorption, water permeability, air permeability, linear expansion, and nail-holding strength.
(NOTE: For a description of tests made to determine the relative deterioration of such boards under accelerated aging, see BMS 4: "ACCELERATED AGING OF FIBER BUILDING BOARDS," item (461) in this list.)

(463) STABILITY OF FIBER BUILDING BOARDS AS DETERMINED BY ACCELERATED AGING by Daniel A. Jessup, Charles G. Weber, and Samuel G. Weissberg; Building Materials and Structures Report BMS 50; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 13, 1940.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thermal insulation; (b) Flexural properties; (c) Nail-holding strength; (d) Water absorption; (e) Water permeability; (f) Air permeability; (g) Outdoor weathering; (h) Moisture-content-relative-humidity relationships; (i) Resistance to rot-producing fungi; (j) Chemical properties; and 4. Summary and Conclusions.
ABSTRACT. Fiber building boards were aged by exposure to cycles of wetting, freezing, drying, and baking and to outdoor weathering. The boards were tested before and after aging to determine the changes produced, and judgment of stability was based on the changes. The properties tested were weight, thickness, expansivity, thermal conductivity, flexural properties, nail-holding strength, water absorption, ash, rosin, and permeability to air and water. Data were obtained on the relationship between the moisture content of the boards and the relative humidity of the surrounding air and on the resistance of the boards to rot-producing fungi. In general, the retention of the most essential properties—namely, thermal conductivity and strength—was excellent. Furthermore, the boards did not support the growth of rot-producing fungi except at relative humidities above 85 percent. At the high humidities, the fiber boards are subject to mold growth, but it was shown that the growth can be prevented, or at least apparently retarded, by use of fungicides.
NOTE: For a description of tests made to determine the relative deterioration of vegetable-fiber building boards under accelerated aging; and for a description of tests made to determine their thermal conductivity, water absorption, air permeability, and other properties, see Reports BMS 4 and BMS 13, which are items (461) and (462) of this list.

(464) STABILITY OF FIBER SHEATHING BOARDS AS DETERMINED BY ACCELERATED AGING by Daniel A. Jessup, Charles G. Weber, and Samuel G. Weissberg; Building Materials and Structures Report BMS 69; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 22, 1941.—4 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thermal insulation; (b) Flexural properties; (c) Nail-holding strength; (d) Water permeability; (e) Air permeability; (f) Outdoor weathering; (g) Resistance to rot-producing fungi; and 4. Summary and Conclusions.
ABSTRACT. Fiber sheathing boards were aged by exposure to wetting, freezing, drying, and to outdoor weathering. Judgment of stability was based on changes produced in the properties of the boards. The properties tested were weight, thickness, expansivity, thermal conductivity, flexural properties, nail-holding strength, and permeability to air and water. Data were obtained on the resistance of the boards to rot-producing fungi. In general, the retention of the essential properties under the aging treatments was excellent. Practically no loss of insulating value was noted and the strength and water resistance of most of the samples after aging were satisfactory. The boards were not readily subject to mold growth even at excessively high humidities.

(465) PROPERTIES AND PERFORMANCE OF FIBER TILE BOARDS by Daniel A. Jessup, Herman Bogaty, and Samuel G. Weissberg; Building Materials and Structures Report BMS 77; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 8, 1941.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thickness and density; (b) Linear expansion with change in humidity; (c) Flexural properties; (d) Thickness of coating; (e) Effect of steam; (f) Impact tests; (g) Resistance to abrasion; (h) Resistance to staining; 4. Summary and Conclusions.
ABSTRACT. Fiber tile board offers considerable promise as a finishing material for installations where much more costly materials are ordinarily used. For this reason performance tests were made on fiber tile boards by subjecting them to conditions which they might possibly meet in service. The properties examined were resistance to abrasive cleaning powders, resistance to staining by household chemicals, and stability of the boards when subjected to cycles of steaming and drying. In addition, data were obtained on the density, expansivity, and flexural properties of the boards, and on the thickness and impact resistance of the finish coatings. The resistance of most of the boards to staining, to impact, and to abrasive cleaning powders was good. Most of the surface coatings were damaged by the cycles of steaming and drying, especially at the edges, where moisture had direct access to the base material, and at the score marks, where the coatings in some of the boards were very thin. The density, expansivity, and flexural properties were satisfactory.

(e) Roofs and Roofing

(481) "RAISING ROOFS BY HYDRAULIC JACKS LOWERS CONSTRUCTION COSTS" by Stanley P. Stewart; in (H.H.F.A.) *Technical Bulletin No.* 17, issued in June 1951, pages 1-6; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Youtz System; 2. The Youtz-Slick System; 3. A Practical Application at Trinity University; 4. Advantages and Cost Savings.
ABSTRACT. This is the first article the HHFA's *Technical Bulletin* has devoted expressly to a proprietary construction method. The Youtz-Slick system is an innovation in building which shows promise of substantial cost savings, and so contributes to achievement of the national housing objectives set by Congress in the Housing Act of 1949. It is intended from time to time to publish other articles of a similar nature. Article is illustrated by five photographs.

(482) "PREVENTION OF COLD WEATHER ROOF LEAKS" by William A. Russell; in *Housing Research*, Winter 1951-1952; pages 37-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. This article *alone* is available for 10¢ as H.H.F.A. Technical Reprint No. 14. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Causes of Ice Dams; 2. Effects of Severe Weather; 3. Valleys and Dormers as Leak Sources; 4. Story-and-a-half Houses Vulnerable; 5. Effects on Plaster and Paint; 6. Snow Melt a Factor; 7. Preventing Ice Dams; (a) Insulation; (b) Ventilation; (c) Flashing.
ABSTRACT. Most of the roof leaks and damage associated with heavy snows in combination with below-average temperatures in northern areas of the United States are unnecessary. The purpose of this article is to discuss the causes of cold weather roof leaks and to suggest practical methods which builders may adopt to prevent such damage. The article is based on a survey conducted by the Department of Agriculture's Forest Products Laboratory under an HHFA research project. The article is illustrated by photographs and drawings.

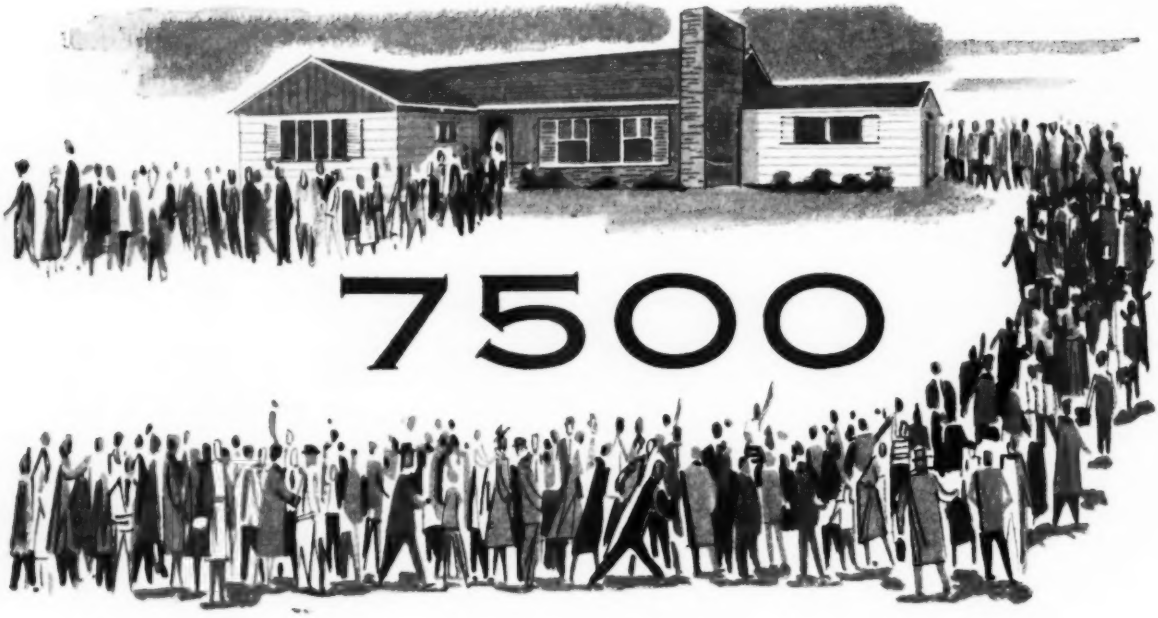
(483) "IS YOUR ROOF CONSTRUCTION LEAKING DOLLARS?"—Based upon research at New York University, coordinated by Renato Contini; in *Housing Research*, March 1953, pages 1-15; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Interim Report; (a) The builder's control house; (b) The demonstration house; (c) Truss construction; (d) Special notes and recommendations; (e) Framing clips; 3. Comparison of Labor for Roof; 4. Comparison of Materials for Roof; 5. Over-all Comparison.
ABSTRACT. Under an HHFA research project, New York University conducted a test in an attempt to demonstrate techniques for low-cost house construction which will save time and material without a corresponding reduction in quality. This article consists of an interim report from New York University concerning only roof construction. Other phases of the test will be reported upon later. Renato Contini, Coordinator of Research, New York University, is the project director. The article is copiously illustrated by photographs.

(484) "CLEAR-SPAN ROOF TRUSSES FOR ONE-AND-ONE-HALF STORY HOUSES" by Philip A. Randall; in *Housing Research*, October 1953, pages 21-32; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods Research; 3. Design Development; 4. Testing; 5. Selection of Material; 6. Fabrication; 7. Special Problems of the 1½-story Trussed Frame; 8. Field Erection; 9. Comparison with Conventional 1½-story Framing; 10. Cost Analysis.
ABSTRACT. Preassembled wood roof trusses offer an effective means of cost reduction in small-house construction through direct savings in materials and labor. Seeking a method of continuing the cost-saving advantages of trussed-roof construction and the clear-span open-room finishing techniques developed for the 1-story house with the economy of expansion and flexibility of the 1½-story house, the Division of Housing Research, Housing and Home Finance Agency, sponsored a research project at the University of Illinois Small Homes Council, to develop and test a method of adapting the clear-span type of roof framing to the 1½-story house. This article reports on the development work undertaken at the Small Homes Council by Willard J. Worth and Sidney B. Berry, under the direction of James T. Lendrum. The article is copiously illustrated by detailed drawings.

(491) SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 6; published by U. S. Department of Commerce, National



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Bureau of Standards, Washington, D. C.—Issued November 4, 1938. —23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Method of Making the Survey; (a) Extent of use of roofing materials in rural sections; (b) Study of the weathering qualities and extent of use of roofing materials in the urban centers; 3. Extent of use of the various roofing materials in rural districts and small towns in the Southeastern States; (a) Factors which affect the choice of roofing materials in rural sections; and (b) in small towns; (c) Territory covered and routes followed in making the survey; (d) Extent of use of particular materials in rural sections and small towns; (e) Summary of the extent of use; 4. Weathering qualities of roofing materials in the Southeastern States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofings; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile roofing; (vi) Metal; (c) Flashings, valleys, gutters, and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers of the Southeastern States; (a) Factors which affect the choice of roofing materials generally; (b) Factors which affect the choice of particular materials; (c) Distribution of roofing materials in the cities covered by this survey (similar data are given, for both new and old construction, for Greensboro, N. C., Columbia, S. C., Savannah, Ga., Jacksonville, Fla., Orlando, Fla., Birmingham, Ala., Atlanta, Ga., Knoxville, Tenn., Charleston, W. Va.); (d) Summary of extent of use in urban centers; and (e) Costs of roofing materials, including cost of application, in urban centers in the Southeastern States.

ABSTRACT. A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the Southeastern States is described. Detailed studies of roofing materials in the several cities are reported. A tabulation, by States, of the kinds of roofing materials used on more than 10,000 rural and small town dwellings, along approximately 2,500 miles of highway, is included. Forty-eight photographs, illustrating types of weathering of roofing materials and features of design and construction of roofs, are shown. This survey was made with the cooperation of the Reconditioning Section, Home Owners Loan Corporation.

(492) SURVEY OF ROOFING MATERIALS IN THE NORTHEASTERN STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 29; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1939.—27 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Method of Making the Survey; 3. Extent of Use, and Appearance, of the Various Roofing Materials in Rural Districts and Small Towns in the Northeastern States; (a) Factors which affect the choice of roofing materials in rural districts and small towns; (b) Distribution of roofing materials in rural sections and small towns in the Northeastern States; (i) Villages and small towns; (ii) Rural sections; (c) Territory covered and routes followed in making the survey; (d) Extent of use of particular materials in rural sections; 4. Weathering Qualities of Roofing Materials in the Northeastern States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Built-up roofing; (vi) Tile; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers in the Northeastern States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile; (vi) Metal; (vii) Built-up roofing; 6. Damage to Roofs by the Hurricane of September 21, 1938; 7. Costs of Roofing Materials, Including Cost of Application, in Urban Centers in the Northeastern States; 8. Summary; (a) Distribution; (b) Weathering; 9. Selected References; (a) Asphalt shingles and roll roofing; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; and (g) General, including built-up roofing.

ABSTRACT. A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the Northeastern States is described, with numerous comparative references to a similar survey in the Southeastern States. Detailed studies of roofing materials in Wilmington, Del.; Philadephia, Pa.; New Haven, Conn.; Boston, Mass.; Manchester, N. H.; Portland, Maine; Rutland, Vt.; and Albany and Syracuse, N. Y., are reported. A tabulation, by States, of the kinds of roofing materials used on more than 10,000 rural and small-town dwellings, along approximately 1,600 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used in almost 21,000 rural and small-town dwellings along 4,000 miles of highway in 20 Eastern States. Forty-eight photographs, illustrating types of weathering of roofing materials and features of design and construction of roofs, are shown. NOTE: This report is the second of a series. For the first report, see BMS-6: SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES, which is item (491) of this reading list.

(493) SURVEY OF ROOFING MATERIALS IN THE NORTH CENTRAL STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 75; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1941.—21 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making the Survey; 3. Extent of Use and Appearance of the Various Roofing Materials in Rural Districts and Small Towns in the North Central States; (a) General; (b) Routes followed in making the survey; (c) Extent of use of particular materials in rural sections; 4. Weathering Qualities of Roofing Materials in the North Central States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofings; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Built-up roofing; (vi) Tile; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the various Roofing Materials in Urban Centers in the North Central States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; 6. Roofing Costs in Urban Centers in the North Central States; 7. Summary; (a) Distribution; (b) Weathering; 8. Selected References; (a) Asphalt shingles and roll roofings; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; (g) General, including built-up roofing.

ABSTRACT. A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the North Central States is described, with numerous references to similar surveys made previously in the Southeastern and Northeastern States. Detailed studies of roofing materials in Pittsburgh, Pa.; Cincinnati and Toledo, Ohio; Grand Rapids and Lansing, Mich.; Chicago, Ill.; Milwaukee, Wis.; St. Paul, Minn.; Bismarck, N. Dak.; Sioux Falls, S. Dak.; Omaha, Nebr.; Kansas City, Moberly, and St. Louis, Mo.; and Indianapolis, Ind., are reported. A tabulation, by States, of the kinds of roofing materials used on more than 8,000 rural and small-town dwellings along approximately 3,000 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used on almost 29,000 rural and small-town dwellings along 7,000 miles of highway in the 32 States covered by the three surveys. Forty-eight photographs, illustrating types of weathering of roofing materials, and features of design and construction of roofs, are shown.

This report is the third of a series, the others being BMS 6: SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES, and BMS 29: SURVEY OF ROOFING MATERIALS IN THE NORTHEASTERN STATES, which appear as items (491) and (492), respectively, in the present reading list.

(494) SURVEY OF ROOFING MATERIALS IN THE SOUTH CENTRAL STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 84; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 5, 1942. —19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making the Survey; 3. Roofing Materials in Rural Districts in the South Central States; (a) General discussion; (b) Routes followed; (c) Roofing materials in rural sections; 4. Weathering of Roofing Materials in the South Central States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile; (vi) Built-up roofing; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers of the South Central States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; 6. Roofing Costs in Urban Centers of the South Central States; 7. Summary; (a) Distribution; (b) Weathering; 8. Selected Refences; (a) Asphalt shingles and roll roofing; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; and (g) General, including built-up roofing.

ABSTRACT. A survey of the weathering qualities and of the extent of use of the various roofing materials on dwellings in the South Central States is described, with numerous references to similar surveys in the Southeastern, Northeastern, and North Central States. Detailed studies of roofing materials in Chattanooga and Memphis, Tenn.; Jackson, Miss.; New Orleans, La.; Houston, Dallas, San Antonio, and Amarillo, Tex.; Oklahoma City, Okla.; Little Rock, Ark.; and Louisville, Ky., are reported. A tabulation, by States, of the kinds of roofing materials used on 9,500 rural and small-town dwellings, along approximately 4,200 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used on 38,000 rural and small-town dwellings, along approximately 11,000 miles of highway in the 37 States covered by the four surveys. Forty-eight photographs, illustrating types of weathering of roofing materials, and features of the design and construction of roofs, are shown. For the previous reports of this series, see BMS 6, BMS 29, and BMS 75, which are items (491), (492), and (493) of the present reading list.

(495) ROOFING IN THE UNITED STATES—RESULTS OF A QUESTIONNAIRE by Leo J. Waldron and Hubert R. Snoke; Building Materials and Structures Report BMS 57; published by U. S. Department of Commerce. National Bureau of Standards, Washington, D. C.—Issued September 18, 1940. —7 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Distribution of Roofing Materials; 3. Durability of Roofing Materials; 4. Unsuited Roofing Materials; 5. Restricted Roofing Materials; (a) By local regulations; (b) By prohibitive freight rates; (c) Other roofing material not used; 6. Customary Roofing Practices; 7. Valley Material; 8. Flashings, Gutters, and Downspouts; 9. Premature Failures; 10. Roofing Nails; 11. Use of New Types of Roofing Materials; and 12. Recapitulation.

ABSTRACT. In an effort to obtain a general picture of roofing practices and conditions throughout the country, a questionnaire was circulated to 148 field offices of the Home Owners' Loan Corporation and Federal Housing Administration in 48 States and the District of

Columbia. This report summarizes the combined results of these replies. The questionnaires covered the following items: Distribution, durability, unsuitability, and restrictions of various roofing materials; customary roofing practices; materials for nails, valleys, flashings, gutters and downspouts; causes of premature roof failures; and the use of new types of roofing materials. The data are presented graphically where possible.

(496) METALLIC ROOFING FOR LOW-COST HOUSE CONSTRUCTION by Leo J. Waldron; Building Materials and Structures Report BMS 49; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 7, 1940.—23 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Aspects of Metal Roofing; (a) General; (b) Effects of temperature; (c) Relative weights of roofing materials; (d) Fire and lightning protection; (e) Mechanical strength and rigidity; 4. Basic Principles of Metal-Roof Construction; (a) General; (b) Seams; (i) Lap seam; (ii) Flat-lock seams; (iii) Single-lock seam; (iv) Standing seam; (v) Double-lock seams; (vi) Loose-lock seams; (vii) Batten seams; (c) Roof decks; (d) Nails for metal roofs; (e) Galvanic action; (f) Types of metal roof coverings; (i) Flat sheets with various types of seams; (A) Batten-seam roofing; (B) Standing-seam roofing; (C) Flat-seam roofing; (ii) Corrugated roofing; (iii) Roofing units; (g) Units of roof measurement; 5. Galvanized Sheet Steel; (a) General; (b) Types of galvanized steel roofing; (i) V-crimp roofing; (ii) Corrugated sheets; (iii) Pressed standing-seam roofing; (iv) Rolled roofing; (v) Shingles; (vi) Patented features; (c) Durability of galvanized ferrous sheets; (i) Details of American Society for Testing Materials tests; 6. Terne Roofing; (a) General; (b) Types of terne roofings; (i) Flat-seam roofs; (ii) Standing-seam roofs; (iii) Batten- and combination-type roofs; 7. Maintenance of Terne and Galvanized Roofs; (a) Galvanized roofs; (b) Terne roofs; 8. Copper Roofing; (a) General; (b) Types; (i) With standard-weight sheets; (ii) With lightweight sheets; 9. Summary; and 10. Selected References.

ABSTRACT. The general aspects and status of metals utilized for roofing purposes are discussed. Considerations which apply in general to all roofing materials and to metals in particular are given. Basic principles of metal-roof construction are listed, together with descriptions of the type of seams, decks, nails, and coverings used. Galvanized sheet steel, terne, and copper roofings are discussed in detail because they constitute the bulk of present-day roofs. The durability of galvanized sheet-steel roofings is shown by the data obtained from outdoor-exposure tests conducted by the American Society for Testing Materials. Information on the maintenance of terne and galvanized roofs is given.

(497) ASPHALT-PREPARED ROLL ROOFINGS AND SHINGLES by Hubert R. Snoke; Building Materials and Structures Report BMS 70; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 10, 1941.—34 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Historical; (b) General; 2. Definition of Asphalt-Prepared Roofings; 3. Materials Used in Asphalt-Prepared Roofings; (a) Felt; (b) Asphalt; (c) Surfacing materials; (d) Composition of typical roofings; 4. Manufacture of Asphalt-Prepared Roofings; 5. Factors Which Should be Considered in Purchasing Asphalt-Prepared Roofings; (a) Roll roofings; (b) Asphalt shingles; (i) General discussion; (ii) Coverage; (iii) Headlap; (iv) Sidelap; (v) Exposure; (vi) Weight; (A) Per unit area of shingle; (B) Per unit area of roof; (vii) Cost; 6. Methods of Application; (a) General discussion; (i) Weather conditions; (ii) Roof deck; (iii) Valleys; (iv) Edging; (b) Roll roofings; (i) General instructions; (ii) Pitch of the roof; (iii) Horizontal application; (iv) Blind nailing; (v) Vertical application; (vi) Hips and ridges; (vii) Flashings; (c) Asphalt shingles; (i) Pitch of the roof; (ii) Underlay; (iii) Edging and strating strips; (iv) Nails and clips; (v) Hips and ridges; (vi) Flashings; (vii) Methods of applying particular types of shingles; (A) Individual shingles—American method; (B) Individual shingles—Wide-space, hexagonal, and Dutch-lap methods; (C) Square-butt strip shingles; (D) Hexagonal-pattern strip shingles; 7. Weathering of Asphalt-Prepared Roofings; 8. Maintenance of Asphalt-Prepared Roofings; (a) Smooth-surfaced roofings; (b) Mineral-surfaced roofings; and 9. Specifications.

ABSTRACT. Asphalt-prepared roofings are defined, their development is sketched briefly, and recent statistics of production are presented. Factors which influence the choice of roofing materials generally are discussed. Materials used in the manufacture of asphalt-prepared roofings and the processes of manufacture are described. Analyses of typical roofings are shown. Factors which should be considered in purchasing asphalt-prepared roll roofings and shingles are discussed, and illustrated graphically for types of shingles that are used most generally. Methods of application and maintenance are described, and the weathering of asphalt-prepared roofings is discussed.

(f) Concrete and Concrete Aggregates

(511) "FOAMED CONCRETE"—Author not stated; in (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950, pages 13-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making Foamed Concrete; 3. Properties of Foamed Concretes; 4. Discussion.

ABSTRACT. "Foamed concrete" is a term usually associated with concrete having no aggregate, made primarily of cement, water, and proper admixtures so that the resultant concrete contains a great amount of entrained air or gas in the form of very small bubbles which create a texture similar in appearance to sponge rubber. If aggregates are included, the result is "Aggregate foamed concrete."

(512) PROPERTIES OF SOME LIGHTWEIGHT – AGGREGATE CONCRETES WITH AND WITHOUT AN AIR-ENTRAINING ADMIXTURE by Perry H. Petersen; Building Materials and Structures Report BMS 112; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 16, 1948.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Concrete; 4. Description of Specimens and Test Results; a. Compressive Strength; b. Flexural Strength; c. Bond Strength to Reinforcement; d. Heat-Transfer Properties; e. Thermal-Expansion Coefficients; f. Shrinkage; g. Rain Penetration; and 5. Summary.

ABSTRACT. The physical properties of several lightweight aggregate portland cement concretes made with burned shale or expanded slag were investigated at the National Bureau of Standards. Three grades of concrete using each aggregate were made. Air-entrainment of greater than 20 percent is reported for the mixture leanest in cement, an air-entraining admixture being used to increase the workability of all but the richest concretes. Compressive, transverse, and bond strengths are given as well as resistance to heat transfer, rain penetration, and water penetration by capillarity. Also included are the coefficients of thermal expansion, shrinkage, and values for change in length due to wetting and drying. The investigation was undertaken by the Bureau in cooperation with the Federal Public Housing Authority to determine the application of such a concrete in the construction of housing.

(513) PROPERTIES OF A POROUS CONCRETE OF CEMENT AND UNIFORM-SIZED GRAVEL by Perry H. Petersen; Building Materials and Structures Report BMS 96; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 18, 1943.—15 pages; price: 10¢ Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Cement; (b) Aggregate; 3. Preliminary Studies; (a) Mixing the porous concrete; (b) Placing concrete in wall specimens; (c) Method of molding cylinders; (d) Preliminary tests, using pea gravel; (e) Preliminary tests, using grits; (f) Preliminary tests, using ¾-inch gravel; 4. Description of Specimens and Test Results; (a) Transverse strength; (b) Heat-transfer properties; (i) Specimens; (ii) Test equipment and procedure; (iii) Heat-transfer data and results; (c) Compressive strength; (d) Shrinkage and thermal-expansion coefficients; (e) Water penetration due to capillarity; (f) Resistance to rain penetration; (i) Specimens; (ii) Test equipment and procedure; (iii) Test results; (g) Bond strength; (h) Resistance to failure by diagonal tension; and 5. Summary.

ABSTRACT. The physical properties of a porous concrete consisting solely of portland cement, water, and uniform-sized gravel were investigated. Each of three coarse aggregates, grits (No. 8 to No. 4), pea gravel (No. 4 to ⅜ inch), and ¾ inch gravel (⅜ to ¾ inch), was used, with 2½ bags of cement per cubic yard in concrete tamped in place and 3 bags per cubic yard when no compacting was done. Walls, wallettes, beams, and bond pull-out specimens were tested, as well as 6 by 12 inch control cylinders. Compressive, transverse, shearing, and bond strengths are reported, as well as resistance to heat transfer, water penetration by capillarity, and rain penetration. These tests were undertaken in cooperation with the Federal Public Housing Authority to determine the application of such a concrete in the construction of low-cost housing.

(514) RELATION OF SHRINKAGE TO MOISTURE CONTENT IN CONCRETE MASONRY UNITS by George L. Kalousek, Richard J. O'Heir, Kenneth L. Ziems, and Edwin L. Saxer. This study was prepared within the Research Foundation of the University of Toledo, under the general supervision of John K. Selden, Coordinator of Housing Research. The introduction was prepared by William A. Russell, Chief, Technical Standards Unit, Division of Housing Research, Housing and Home Finance Agency; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D C., March 1953, as "Housing Research Paper No. 25."—28 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Cement; (b) Aggregates; (c) Air-Entraining Agent; (d) Mix proportions; 3. Methods of Curing; 4. Methods of Measuring Physical Properties; (a) Strengths; (i) Bars; (ii) Blocks; (b) Volume changes; 5. Pre-

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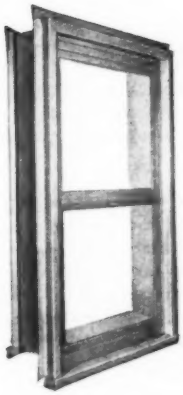

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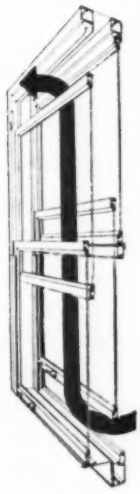

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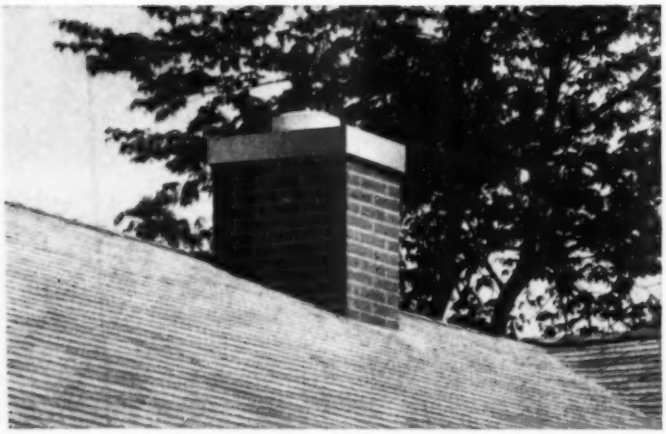

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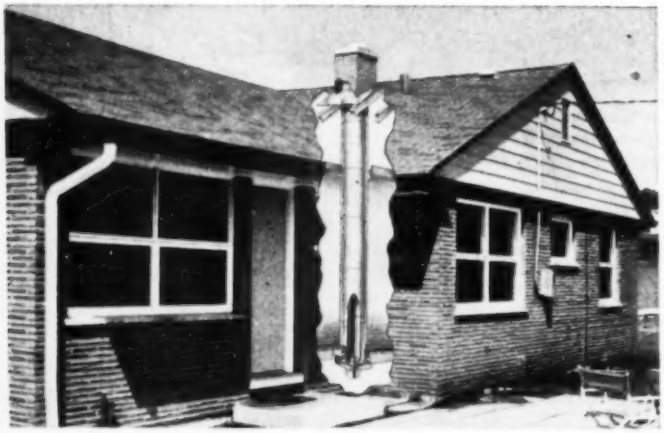

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3 Cement remaining sections in place until desired height is reached.

4 Cut housing panels to desired roof ridge or pitch. Assemble with corner angle irons provided.

5 Install leak-proof flashing. Fasten housing in place.

6 Install housing cap. Set chimney pot with joint cement. Rain cap available if needed.

.. plus "buyer acceptance" of brick!

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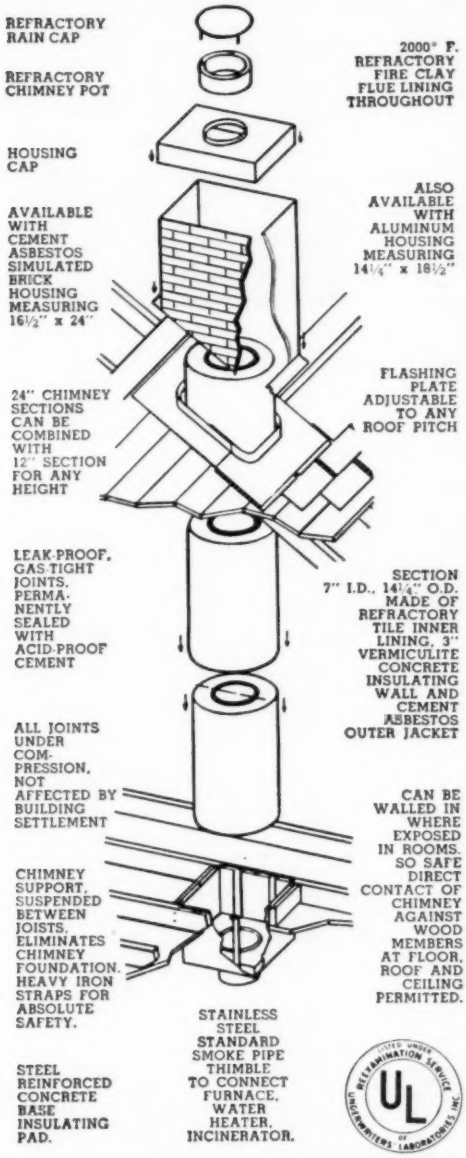

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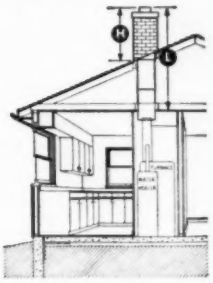

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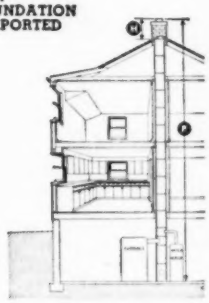

One or Two Story
with Basement

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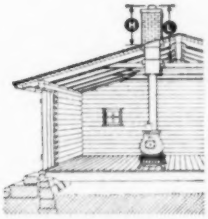

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liminary Tests Using Laboratory Equipment; 6. Results and Discussion; (a) Strengths; (i) General considerations; (ii) Compositions of mixes; (b) Strength data; (c) Volume changes and moisture contents; (i) Shrinkage or moisture loss—drying time relations; (ii) Moisture loss—drying time relations; (iii) Shrinkage—moisture content relations; (iv) Summary of shrinkage data; (A) Sand and gravel; (B) Cinders; (C) Expanded shale; (D) Expanded slag; (E) Sintered shale; (F) Pumice; 7. Summary; 8. Appendix; (a) Photograph of comparator mounted in position on block; (ii) Graphs; (iii) Tables.

ABSTRACT. This report covers the first in a series of investigations aimed at the reduction of shrinkage cracking of concrete masonry unit construction. It is limited to investigation of the relation of shrinkage to moisture content of individual concrete masonry units and small laboratory test bars. Factual data are presented in the report regarding shrinkage and moisture content covering a range of six types of aggregates, four commercial curing methods, and various other variables which affect shrinkage characteristics of individual concrete masonry units. Investigations of the relation of shrinkage to moisture content in individual concrete masonry units reported were performed at the Research Foundation of the University of Toledo, sponsored by the Housing and Home Finance Agency and various industry groups.

(531) LIGHTWEIGHT CONCRETE AGGREGATES by Perry H. Petersen (For the names of research workers on the project, see below); published by Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C., August 1949.—28 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of Project; 3. Aggregates; (a) Bureau of Reclamation Aggregates; (b) National Bureau of Standard Aggregates; 4. Concretes; (a) Bureau of Reclamation Concretes; (b) National Bureau of Standards Concretes; 5. Discussion; (a) Aggregates; (b) Design of Concretes; (c) Properties of Concretes; 6. Summary; (a) Expanded Clay, Shale or Slate Concretes; (b) Sintered Fly Ash Concretes; (c) Expanded Slag Aggregate Concretes; (d) Scoria Aggregate Concretes; (e) Pumice Aggregate Concretes; (f) Perlite Aggregate Concretes; (g) Expanded Vermiculite Concretes; (h) Pumicite Aggregate Concretes; (i) Diatomaceous Earth Concretes; 7. Conclusions; and 8. Recommendations.

ABSTRACT. In recent years many inorganic lightweight materials, both natural and processed, have been introduced and marketed as concrete aggregates. Recognizing the potential advantages of low density concretes and the need for reliable technical information on them regarding their suitability for use in dwelling construction, the Housing and Home Finance Agency sponsored an investigation conducted jointly by the Bureau of Reclamation, U. S. Department of the Interior, and the National Bureau of Standards, United States Department of Commerce. The large number of variables entering into the making, placing and curing of concrete emphasizes that full consideration of all pertinent factors is essential. Each laboratory utilized the best known methods in developing the data covered in this report. It is believed that with comparable aggregates and sound practices in mixing, placing and curing, concretes having substantially similar properties may be expected in the field. The report combines the investigations of monolithic, poured-in-place, lightweight aggregate concretes by the two agencies. There were 32 aggregates received, and all but one were incorporated in concrete. Data on aggregate, mixing of the concrete, and physical properties of the concrete such as compressive and transverse strength, modulus of elasticity, thermal conductivity, resistance to freezing and thawing, and the amount of drying shrinkage were recorded and discussed. Brief outlines of the test methods and all of the pertinent data and test results, including comprehensive tables and illustrations, are in the report, which was written under the direction of Leonard G. Haeger and Joseph H. Orendorff, Director and Deputy Director, respectively, of HHFA's Division of Standardized Building Codes and Materials, and of Ralph R. Britton. Research work on the project at the National Bureau of Standards was supervised by Douglas E. Parsons, Chief, Building Technology Division, and J. W. McBurney, and was performed by Ralph W. Kluge, M. M. Sparks, and E. C. Tuma; that at the Bureau of Reclamation by R. F. Blanks, Head, Research and Geology Division, Walter H. Price, W. A. Cordon, and M. E. Hickey. The aggregates used in the investigation were furnished through the courtesy and cooperation of 25 American firms. In addition, three aggregates included in the investigation at the National Bureau of Standards were produced experimentally by John E. Conley of the Bureau of Mines, U. S. Department of the Interior. Howard Wharton was in charge of liaison work with the two laboratories.

(532) PHYSICAL PROPERTIES OF TERRAZZO AGGREGATES by Daniel W. Kessler, Arthur Hockman, and Ross E. Anderson; Building Materials and Structures Report BMS 98; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1943.—19 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Aggregates; (a) Color; (b) Mineralogical classification; (c) Texture; (d) Structure; (e) Fabrication; 3. Description of Tests; (a) Wear resistance; (b) Toughness; (c) Absorption; (d) Bulk specific gravity; (e) Dust content; (f) Percentage of voids; (g) Thickness grading; (h) Dimensional changes; (i) Moisture effects; (ii) Temperature effects; 4. Results of Tests; (a) Wear resistance; (b) Toughness; (c) absorption; (d) Bulk specific gravity; (e) Dust content; (f) Percentage of Voids; (g) Thickness gradings; (h) Dimensional changes; (i) Moisture effects; (ii) Temperature effects; and 5. Summary.

ABSTRACT. The extensive use of terrazzo in a wide variety of buildings and some variability in its performance have caused a demand for more specific information on the materials used in making this product. Terrazzo specifications seldom afford adequate control over the quality of the aggregates, and since troubles sometimes occur that are attributed to faulty aggregates, this investigation was undertaken to supply data on certain properties of the marbles used for making terrazzo chips. Comparative data are given on 77 samples of the commonly used products. Samples were supplied by 24 producers representative of various quarries in 12 states. The abrasive resistance, bulk specific gravity, absorption, and toughness tests were made on the rock in the original condition, and the percentage of dust, percentage of voids, and thickness grading tests were made on samples of No. 2 chips. Moisture-expansion tests were made on a few samples, including two thought to be faulty. Thermal coefficients were determined for one sample in three directions at right angles to each other. A few samples were found to be rather low in abrasive resistance and friable enough to produce a considerable amount of dust in their shipping containers. Bulk specific gravity and absorption values varied considerably for the entire series and also for samples of similar mineral compositions. The percentages of voids in chips of No. 2 aggregates were determined for samples when poured into a volumetric measure and also when compacted by vibrating. The void space obtained for loose chips is assumed to be comparable to that of portions measured by workmen in mixing, whereas the values for the vibrated samples give an indication of the minimum amount of cement paste required in a well-rolled terrazzo floor. Since it is commonly believed that flat or thin chips are undesirable, a test was devised to separate samples of No. 2 aggregates (chips passing ⅜ in. and retained on ¼-in. mesh) into four thicknesses. The percentages of particles in each of these fractions show characteristic differences for samples that are similar in other properties. The shape of the particles seems to bear no relation to the type of crushing equipment used, but is a characteristic of the rock. A few terrazzo slabs were made with chips of unusual thickness distribution and were cut through the middle for studying the orientation of flat or elongated chips in the finished product. These show a tendency for such particles to assume horizontal positions when the terrazzo mixture is rolled, and thus interfere with the removal of excess cement paste. One sample showed a large expansion while absorbing water, the amount being about equal to that of a 70° C temperature change, but the expansions for other samples were comparatively low. Contractions of the samples while drying were about the same as expansions while soaking. Thermal-expansion measurements on an impure calcite marble over the range −24° to +60° C gave variable coefficients over different temperature intervals, and for different directions in the stone. The highest coefficient (0.0000087) was obtained when the specimen was cooled from 60° to 0° C. Samples supplied for this investigation were secured from practically all of the domestic sources. Since a few of the aggregates had been reported to give trouble in terrazzo mixtures, certain studies were made on these to determine if they contributed to excessive shrinkage in terrazzo mixtures.

(g) Plumbing and Piping

(551) BACKFLOW PREVENTION IN OVER-RIM WATER SUPPLIES by Gene E. Golden and Roy B. Hunter; Building Materials and Structures Report BMS 28; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 24, 1939.—17 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Previous Work on the Subject; 3. Purpose and Scope of the Investigation; 4. Outline of the Problem; (a) Definition of safe and critical air gaps; (b) Statement of the general problem; (c) Factors affecting the critical air gap; (d) Discussion of the factors; (i) Magnitude of the vacuum pressure; (ii) Air backflow capacity of faucets; (iii) Dimensions and shape of the faucet spout; (iv) Position of the faucet spout with respect to nearby fixture walls; (v) Temperature of the water in the fixture; (vi) Atmospheric conditions; (vii) Physical characteristics of the liquid in the fixture; (e) Statement of the specific problem and method of approach; 5. Experimental Procedure; (a) Experimental apparatus; (b) Devices tested; (i) Orifices; (ii) Tubes; (iii) Faucets; (c) Determination of equivalent diameters of tubes and faucets; (d) Measurement of critical air gaps; (e) Effect of water temperature on critical air gaps; (f) Effect of adjacent walls; (g) Effect of different liquids on the critical air gap; 6. Analysis of Experimental Data; (a) Empirical equation for the critical air gap for tubes; (b) Application of air-gap equation to faucets; (c) Effect of adjacent walls; 7. Practical Application of Results; 8. Conclusions; and 9. References.

ABSTRACT. This report describes the methods used and the results obtained in the investigation of the prevention of backflow from plumbing fixtures with over-rim supply by means of air gaps between the supply opening and the highest possible liquid level in the fixture. The previous work is discussed and the data necessary for a complete understanding of the subject are presented. The treatment has been developed from the point of view of the construction of the supply fitting as well as its location with respect to the fixture. Finally, recommendations are offered in a form suitable for use in field inspection.

(552) STRENGTH OF SOFT-SOLDERED JOINTS IN COPPER TUBING by Arthur R. Maupin, William H. Swanger and Building Materials and Structures Report BMS 58; published by U. S. Department of Commerce, National Bureau of Standards, Washington,

D. C.—Issued September 20, 1940. —25 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction 2. Previous Investigations; 3. Scope of Investigation; 4. Materials; (a) Tubing; (b) Fittings; (c) Solders and fluxes; 5. Short-Time Tensile Tests; (a) Depth of bore; (b) Diametral clearance; compositions of solder and of metals soldered; (i) Test procedure; (ii) Discussion of results; (c) Tests at 0° to 350° F on joints made with (50–50) tin-lead and with (95-5) tin-antimony solders; 6. Joints made with (50-50) tin-lead solder; (a) Long-time tests at room temperature (about 85° F); (b) Long-time tests at 85° F on joints in 3-inch tubing; (c) Long-time tests at 123°, 173°, 218°, and 250° F; 7. Maximum Shear-Stress—Temperature Relations for Joints Made With (50-50) Tin-Lead Solder; 8. Maximum Internal-Pressure—Temperature Curves for Joints in Copper Tubing Made With (50-50) Tin-Lead Solder; 9. Joints Made With (95-5) Tin-Antimony Solder; (a) Long-time tests at room temperature (about 85° F); (b) Long-time tests at 250° and 325° F; 10. Maximum Shear-Stress—Temperature Relations for Joints Made With (95-5) Tin-Antimony Solder; 11. Fluctuating Tensile Load Tests on Joints Made With (50-50) Tin-Lead Solder; 12. Summary; and 13. Selected References.

ABSTRACT. An extended investigation was made of the strength, under tensile loading, of sleeve joints in copper tubing, with wrought-copper and cast-brass couplings, soldered with (50-50) tin-lead and (95-5) tin-antimony alloys. In short-time tests (speed of movable head 0.06 inch per minute) the strength of the joints was substantially equal to that of the tubing or fittings. The strength varied directly with the depth of insertion of the tubing into the fitting, and was greater at diametral clearances of 0.004 to 0.010 inch between tubing and fitting than at greater clearances. The strengths were higher at 0° F than at 85° F and decreased rapidly as the temperature was further increased. In long-time tests (10,000 hours or more) under constant tensile loads, the strength of joints soldered with tin-lead was about one-eighteenth of that obtained in short-time tests, from 85° to 250° F; joints soldered with tin-antimony had from one-fifth to one-seventh of the short-time strength, depending upon the temperature. At 250° F and upward, diffusion of copper from the tubing into the solder films, in joints made with tin or tin-alloy solders, may weaken or destroy the metallic bond between the solder and tubing. Results of pulsating tensile-load tests, limited to the joints soldered with 50-50) tin-lead, indicated that the strength under repeated loading was not less than under steady loading. The increasing use of thin-walled copper tubing with solft-soldered sleeve joints in domestic plumbing installations and the need for definite information on temperature limitations and the effects of long-time loading on the strength of such joints prompted the investigation begun in 1936 in coopeartion with the Federal Housing Administration. After 1937 the investigation was continued on the Research Associate Plan, under the sponsorship of the Copper and Brass Research Association and Committee A40 of the American Standards Association. See also item (554 of this reading list.

(553) PLUMBING MANUAL—Report of Subcommittee on Plumbing, Central Housing Committee on Research, Design, and Construction, Chairman of Subcommittee: Robert K. Thulman, Federal Housing Administration; Building Materials and Structures Report BMS 66; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D .C.—Issued November 22, 1940. —70 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of the following, with minor subdivisions omitted: 1. Introduction; 2. Recommended Minimum Requirements for Plumbing; (a) Definitions; (b) General regulations; (c) Quality, weight, and thickness of materials; (d) Joints and connections; (e) Traps and clean-outs; (f) Water supply and distribution; (g) Plumbing fixtures; (h) Soil and waste pipes for sanitary systems; (i) Storm drains; (j) Vents and venting; (k) Indirect connections to waste pipes; (l) Maintenance; (m) Inspection and tests; 3. Explanations, Illustrations, and Interpretations; 4. Tables (22 in all, included in the text); 5. Figures (24 in all, included in the text). A copious index is on pp. 63-70. ABSTRACT. This report has been prepared by a representative committee to serve as a guide for Federal agencies that design, install, or approve plumbing. It is the product of a careful review of existing recommendations, supplemented by consideration of the results of experimental work at the National Bureau of Standards and by group discussion among the committee members. The aim has been to insure adequate and healthful plumbing at a minimum of expense. It is hoped that the report will prove useful, not only for Federal plumbing work, but also in connection with efforts to bring about greater uniformity in plumbing requirements and to reduce the cost of construction, of which plumbing forms a part. In essence it is a manual of recommended plumbing practices. Part I consists of an introduction explaining the origin of the work. Part II contains recommendations regarding necessary sizes of piping, precautions against pollution of water supply, permissible types of venting, and other matters customarily covered in plumbing codes. Part III contains information useful in applying the recommendations, including illustrative interpretations of the specific requirements in Part II. The recommendations are presented as suitable for adoption by Federal agencies engaged in actual plumbing work or in passing upon plans of structures containing plumbing.

(554) STRENGTH OF SLEEVE JOINTS IN COPPER TUBING MADE WITH VARIOUS LEAD-BASE SOLDERS by Arthur R. Maupin and William H. Swanger; Building Materials and Structures Report BMS 83; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 5, 1942.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Tubing; (b) Solders; 3. Testing Procedure and Results; (a) Short-time tensile tests; (b) Long-time loading tests; 4. Discussion; 5. Summary; 6. Selected References; 7. Appendix. Results of long-time loading tests on joints made with solders listed in table 1. ABSTRACT. A previous investigation (report BMS 58: STRENGTH OF SOFT-SOLDERED JOINTS IN COPPER TUBING; item 552 in this reading list) on soft-soldered sleeve joints in copper tubing for domestic plumbing lines and other uses dealt with joints made with two tin-base solders. To supplement that investigation, the present one on similar joints made with various lead-base solders was conducted. Solders of the following types were used: lead-silver, lead-tin-antimony, lead-cadmium, high lead—low tin, and high-purity lead. Tensile tests at room temperature (short-time tests) were made, together with long-time tests at temperatures ranging from 85° to 325° F. The information from the latter tests is much more useful than the results of short-time tests in evaluating soldered joints for service. Consideration must always be given also to possible bond deterioration of the soldered joint at elevated temperatures. On the basis of the result of the first investigation, joints in copper made with tin-base solders were considered satisfactory for general use, provided the temperature did not exceed 250° F. The results of the present study have shown that similar joints made with lead-base tin-free solders can be used with safety at temperatures as high as 325° F.

(555) STACK VENTING OF PLUMBING FIXTURES by John L. French; Building Materials and Structures Report BMS 118; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 23, 1950.—21 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Statement of the Problem; 3. Previous Consideration of the Problem; 4. Description of Test System; 5. Test Procedure; 6. Test Results; 7. Interpretation of Test Results; (a) Probable loads from a single group of bathroom fixtures and a combination fixture; (b) Permissible trap-seal losses; (c) Conclusions; 8. Factors Affecting the Performance of Stack-Vented Fixtures; (a) Rate of fixture discharge; (b) Diameter of stack; (c) Vertical distance between bathtub or water-closet drain and combination-fixture drain; (d) Diameter of combination fixture drain; (e) Length and slope of bathtub or water-closet drains; (f) Type of fitting connecting combination fixture to stack; (g) Trap dimensions; (h) Submerged house drain; 9. Corrosion and Fouling; 10. Conclusions; and 11. References.

ABSTRACT. This report describes the methods used and the results obtained in an investigation of the adequacy of stack venting a group of plumbing fixtures on the top floor of a building. Trap-seal losses of stack-vented fixtures in an experimental installation are reported, a test loading having a reasonable probability of occurrence is developed, and a criterion of satisfactory trap-seal loss is proposed. The experimental results are interpreted in the light of the adopted test loading and the adopted permissible trap-seal loss. And, finally, conclusions in a form suitable for the use of code-writing authorities are made. Stack venting can be used satisfactorily under certain restricted conditions and makes possible appreciable economies in the construction of building drainage systems. NOTE: Ever since the formation of the Department of Commerce Building Code Committee in 1921, investigations of the various fundamental problems relating to the physics of flow in the water-supply and sanitary drainage systems of buildings have been in progress at the National Bureau of Standards. These investigations have resulted in the publication of various reports, many of which are included in the present reading list. Investigations of plumbing systems were almost completey suspended at the National Bureau of Standards during World War II but were resumed about 1948, largely owing to the sponsorship of research projects by the Housing and Home Finance Agency as part of a comprehensive research program sponsored by that Agency as a part of their program under their statutory authority. The specific problems studied in these investigations comprise part of this program and include stack venting, wet venting, the self-siphonage of fixture traps, and the capacities of vertical building stacks and horizontal branches.

(556) WET VENTING OF PLUMBING FIXTURES by John L. French, Herbert N. Eaton, and Robert S. Wyly; Building Materials and Structures Report BMS 119; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 1, 1950.—27 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of the Investigation; 3. Previous Investigations of the Performance of Wet-Vented Fixtures; 4. Nature of the Phenomena Involved in Wet Venting; 5. Tests on a Single-Story Wet-Vented System with Lavatory and Combination Fixtures Connected to the Wet Vent; (a) Description of the test system; (b) Test procedure; (c) Test results; (i) Tub not discharged; (ii) Tub discharged; (d) Interpretation of test results; (i) Loads on the drainage system from a single group of bathroom fixtures and a combination fixture; (ii) Permissible trap-seal losses; (iii) Permissibility of venting a bathtub trap with a wet vent to which a lavatory and a combination fixture are connected; (iv) Summary; 6. Factors Affecting the Performance of Wet-Vented Systems; (a) Length of horizontal branch; (b) Slope of horizontal branch; (c) Diameter of

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horizontal branch; (d) Tub drain length and slope; (e) Trap dimensions; (f) Effect on the trap-seal losses of a wet-vented bathtub of increasing the diameters of the lavatory and combination fixture drains; 7. Tests on a Single-Story Wet-Vented System with only a Lavatory Connected to the Wet Vent; 8. Tests on Two-Story, Duplex, Wet-Vented System; 9. Wet-Vented Fixtures on the Lower Floors of Multi-Story Buildings; 10. Conclusions; and 11. References.

ABSTRACT. This report gives the results of laboratory tests of various wet-vented single and two-story plumbing drainage systems. A suggested test or design loading for such systems is developed, and a permissible trap-seal loss for the fixtures of wet-vented systems is proposed. Conclusions regarding the limits under which wet-vented fixtures located on the upper floor of a system will operate satisfactorily are given in a form sufficiently simple for inclusion in planning codes. This report is the second in a series of three National Bureau of Standards reports giving the results of an investigation of the problems involved in the proper venting of single plumbing fixtures or a relatively small group of such fixtures, the first report being BMS-118: STACK VENTING OF PLUMBING FIXTURES, (item 535) of the present reading list, which was published in January 1950. A fixture is said to be *wet vented* when its vent serves also to carry the discharge from fixtures connecting into the drainage system at a higher level. The use of wet venting reduces the number of individual vent pipes required by a plumbing drainage system as contrasted with the number required by the conventional back-vented system and hence reduces the cost of the venting system. This fact has led to an increased tendency among code-writing authorities to permit the wet venting of plumbing fixtures under certain circumstances. One of the objects of this investigation was to determine under what circumstances it is legitimate to use this form of venting in order to afford a sound basis for code provisions relating to this matter. The research forming the basis for this report was first undertaken for the National Housing Agency in connection with the Veterans Emergency Housing Program of that Agency and was continued and completed under the Housing Research Program of the Office of the Administrator, Housing and Home Finance Agency, as part of the research program of that Agency under its statutory authority.

(557) SELF-SIPHONAGE OF FIXTURE TRAPS by John L. French and Herbert N. Eaton; Building Materials and Structures Report BMS 126; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 15, 1951.—32 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Nature of the Phenomenon; 3. Statement of the Problem; 4. Previous Consideration of the Problem; 5. Preliminary Considerations; 6. Analysis of the Problem; 7. Experimental Investigation; 8. Conclusions; 9. Considerations Regarding the Self-Siphonage Problem; 10. Importance of Economy in the Use of Water; and 11. References.

ABSTRACT. This paper describes the methods used and the results obtained in an experimental investigation of the self-siphonage of fixture traps in plumbing systems. Self-siphonage is the reduction in depth of the water seal in the trap by flow from the fixture that discharges through the trap. The different factors that affect self-siphonage are determined, and methods for reducing the ill effects of self-siphonage are suggested. Finally, recommendations and conclusions in a form suitable for use by code-writing authorities are presented. Hitherto it had been customary to control self-siphonage by limiting the unvented length of drain connected to the fixture. However, this investigation has shown that other factors than the length of fixture drain affect self-siphonage. Among these are the diameter of the trap and the depth of trap seal, the diameter and slope of the fixture drain, the type of vent fitting used, and the rate of discharge of the fixture. This investigation has shown to what extent these other factors affect trap-seal losses,

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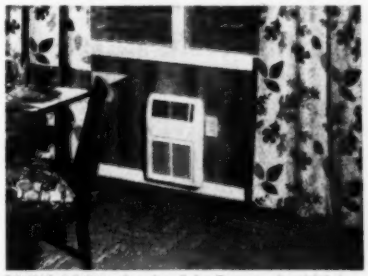

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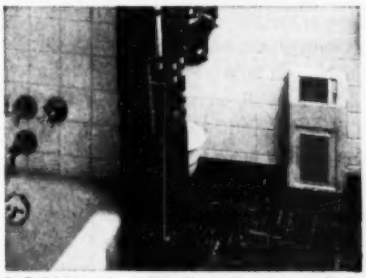

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and the report gives the necessary information to take them into account properly in the design of the system. It also shows the importance of standardizing fixture traps and the hydraulic characteristics of plumbing fixtures, such as lavatories, sinks, and trays. NOTE: This report is the last of a series of three reports giving the results of an investigation of the problems involved in the proper venting of single plumbing fixtures re relatively small groups of such fixtures in dwellings. The first report, BMS-118: STACK VENTING OF PLUMBING FIXTURES is item (555) of this reading list and was published in January 1950; and the second is BMS-119: WET VENTING OF PLUMBING FIXTURES, item (556) of this reading list, which was published in December 1950. The investigation, the results of which are presented in these three reports, was first undertaken for the National Housing Agency in connection with the Veterans Emergency Housing Program of that Agency, and was continued and completed under the Housing Research Program of the Office of the Administrator, Housing and Home Finance Agency, as part of the research program of that Agency under its statutory authority.

(558) "NOISE IN DOMESTIC WATER SYSTEMS" by Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 17-22; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Tests; 2. Test Results; 3. Discussion; (a) Water hammer; (b) Cavitation; 4. Conclusion; and 5. References on water hammer.
ABSTRACT. The Housing and Home Finance Agency sponsored an investigation by the College of Engineering, State University of Iowa, on some of the factors concerned with the development of operational noise in water piping systems. The results of the tests conducted during this study are reported in this article. Article is illustrated by six figures.

(h) Septic Tanks and Other Sewage Disposal Systems

(571) "INDIVIDUAL SEWAGE DISPOSAL SYSTEMS"—(a) Part 1, in HHFA *Technical Bulletin No. 7*, November 1948, pages 21-41. (b) Part 2, in HHFA *Technical Bulletin No. 10*, May-July 1949, pages 17-32. (c) Part 3, in HHFA *Technical Bulletin No. 11*, September-November 1949, pages 19-37. By scientific and engineering technicians on the staff of the U. S. Public Health Service; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: A few copies of *Technical Bulletin No. 7* are still available. Interested persons should address their requests to the Housing and Home Finance Agency, Washington, D. C. *Technical Bulletin No. 10* sells for 20¢, and *Technical Bulletin No. 11* sells for 25¢. Copies are available from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. These articles are based on the study of individual sewage disposal systems, principally the septic tank soil absorption type, sponsored by the Housing and Home Finance Agency, as a part of its program under Title III of the Housing Act of 1948. The work was done by the United States Public Health Service at its Cincinnati Environmental Health Center and in the field. Part III concludes the report with the exception of Section C—"Study of Experimentally Operated Septic Tanks," and Section D—"Study of Septic Tanks in Field—Sludge and Scum Accumulations." These sections are published separately as HHFA *Technical Paper No. 14*: "Septic Tank Studies" for which see item (582) of this reading list.

(572) INDIVIDUAL SEWAGE DISPOSAL SYSTEMS—Recommendations of the Joint Committee on Rural Sanitation (For the members of this Committeee, see the "Abstract" section, below.); published by the Federal Security Agency, Public Health Service, Division of Public Health Methods, Washington, D. C., 1950.—vi plus 33 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

The work includes: 1. Statement of the Joint Committee; 2. Introduction; 3. Water Carriage Sewage Disposal Methods; (a) Plumbing system; (b) Grease interceptor; (c) Building sewer; (d) Septic tank; (e) Distribution box; (f) Subsurface disposal field; (g) Disposal trench construction; (h) Seepage pit; (i) Dry well; (j) Cesspool; 4. Nonwater Carriage Sewage Disposal Methods; (a) Earth pit privy; (b) Masonry vault privy; (c) Chemical toilet; (d) Pail or can type privy; (e) Cremating latrine or incinerator privy; 5. Diagrams; (a) Grease interceptor; (b) Single chamber septic tank; (c) Distribution boxes; (d) Subsurface disposal fields; (e) Subsurface disposal trenches and sand filter trench; (f) Seepage pit, dry well, and cesspool; (g) Sanitary pit privy; (h) Types of risers, vents, and seat assemblies; (i) Improved self-closing seat cover; and (j) Chemical toilet.
ABSTRACT. This is the first research report on the Household Sewage Disposal Project conducted by the Public Health Service and sponsored by the Housing and Home Finance Agency at the Environmental Health Center at Cincinnati, Ohio. It is Reprint No. 2461 from the Public Health Reports, published originally in 1943 and revised in 1947. A brief history of the Joint Committee follows: In June 1941, at the suggestion of various Government agencies interested in proper disposal of sewage and development of safe water supplies in rural areas, the Public Health Service sponsored the appointment of a Joint Committee to study the problems involved and develop a set of uniform recommendations to be followed by the agencies concerned. The Joint Committee on Rural Sanitation consisted of the following representatives when this report was published: *Chairman*, C. H. Atkins, Public Health Service; Secretary, John B. Thomas, Public Health Service; George R. Phillips, Harry L. Garver, S. P. Lyle, Carl A. Johnson, Clifford A. Betts, H. M. Bowman, E. L. Arnold, and George W. Musgrave, representing various Administrations in the U. S. Department of Agriculture; William H. Carey, Jr., Conference of Municipal Public Health Engineers; C. H. Atkins, Conference of State Sanitary Engineers; Leonard M. Board, and S. R. Weibel, of the Public Health Service, and Dr. Ray L. Hamon, of the Office of Education, Federal Security Agency; Laurence M. Shuman, of the Office of the Administrator, and James R. Simpson, of the Federal Housing Administration; Housing and Home Finance Agency; Robert N. Clark, Tennessee Valley Authority; A. G. Fiedler, Geological Survey, U. S. Department of the Interior; and William B. Mason, Jr., Veterans Housing Administration.

(573) STUDIES ON HOUSEHOLD SEWAGE DISPOSAL SYSTEMS (PART I) by S. R. Weibel, C. P. Straub, and J. R. Thoman (Sanitary Engineers) of the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, with the

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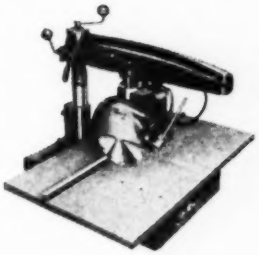

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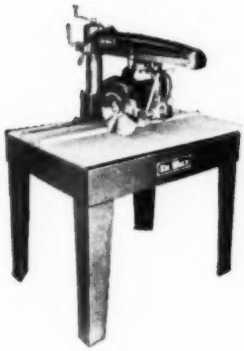

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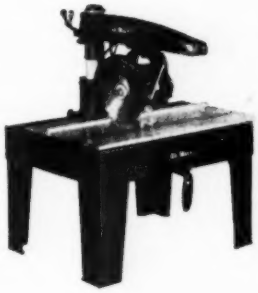

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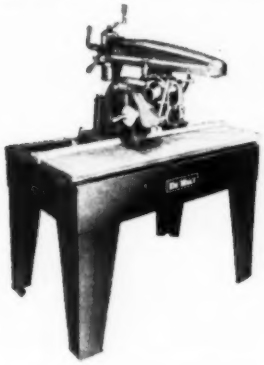

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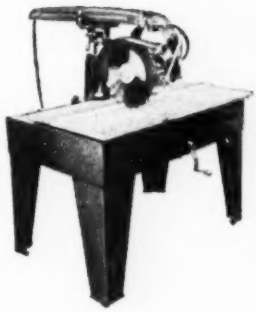

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assistance of Jesse Cohen, F. E. Longan, E. C. Fosher and H. D. Ray. The work proceeded under the administrative direction of Sanitary Engineer Director H. W. Streeter and of his successor G. MacKenzie. Contributions to the study were also made by A. A. Solander, H. H. Better, P. Agnano, J. W. Shipp, W. Hamblett, C. H. Edwards, H. F. Clark, H. S. Tubiash, W. S. Griffiths, M. L. Guethlein, and F. Droege. The project was sponsored by the Housing and Home Finance Agency, whose project technicians were Laurence Shuman, Fred McGhan and E. Hopkins; published by the Federal Security Agency, Public Health Service, Experimental Health Center, Cincinnati, Ohio, in 1949.—260 pages; price: not stated, but copies are free while supply lasts. Order copies from U. S. Public Health Service, Public Inquiries Branch, Room 5525, 4th and Independence Avenue, S. W., Washington D. C.

Includes a consideration of: 1. Introduction; (a) Authorization; (b) Objectives; (c) Start of work; (d) Informal advisory committee; (e) Progress reports; (f) This report; (g) Other work undertaken; (h) Acknowledgments; (i) Personnel; (j) Number of septic tanks in U. S.; 2. Summary; 3. Application of Research Results; 4. Review of Literature; 5. Experimental and Survey Studies; (a) Illinois study; (b) Kansas State College study; (c) Iowa State College experiments; (d) A.P.H.A. committee: 1933; (e) University of Minnesota experiment; (f) Victoria, Australia, survey; (g) Freezing studies; Ontario Agricultural College; (h) Soil studies—England; (i) Michigan Department of Health; (j) Massachusetts Department of Health; 6. Design Practice; (a) United States; (b) State recommendations; (i) House sewers; (ii) Septic tanks; (iii) Subsurface disposal system; (iv) Seepage pits; (v) Cesspools; (c) Design practice outside the United States; (i) Canada; (ii) England; (iii) India; (iv) Australia; (v) New Zealand; (vi) South Africa; (vii) Rhodesia; (viii) Germany; (ix) Poland; (x) Venezuela; (xi) Ecuador; (xii) Dominican Republic; 7. Survey of Controls and Practices in Some Local Health Units; 8. Study of Experimentally Operated Septic Tanks; (a) Foreword; (b) Introduction; (c) Analytical procedures; (d) Raw sewage; (e) Septic tanks; (f) Operating periods; (g) Sludge; (h) Seeding; (i) Feed schedule; (j) Feeding and sampling (k) Composite; (l) Grab samples; (m) Temperatures; (n) Results; (o) Tank performance (p) Series I operation; (q) Suspended solids removal efficiencies—summary (r) Statistical summary solids removal; (s) Series II operations; (t) Series III operation; (u) Series IV operation; (v) Suspended solids removal, sludge in tank; (w) Series V operation; (x) Series VI operation; (y) Solids balance; (z) Sludge and scum accumulations; (aa) Color of effluents; (bb) B.O.D. removals; (cc) Sulfides; (dd) Ammonia; (ee) Grease; (ff) Chlorides; (gg) Inlet and outlet studies; (hh) Introduction of influent sewage through sludge; (ii) Effect of compartmentation; 9. Study of Septic Tanks in Field, Sludge and Scum Accumulations; (a) Introduction; (b) Geographical distribution inspections; (c) Distribution by tank types; (d) Inspection form; (e) Scope of this report; (f) Number of persons, bedrooms; (g) Water use; (h) waste disposal distribution; (i) Condition of structural materials; (j) Distribution of tanks by years of service; (k) Measurement of scum and sludge; (l) Examination of septic tank sludge and scum accumulation data; (m) Average trends, 205 household septic tanks; (n) Scum buoyancy; (o) Effect of type of waste on scum and sludge accumulation; (p) Effect of capacity; (q) Effect of liquid depth; (r) Effect of surface area; (s) Summary; 10. Laboratory Investigation of Sludge, Yeast, as Starters; (a) Sludge as a starter; (b) Yeast as a starter; 11. Experimental Investigation Effect of Zeolite Softener Salts on Digestion; 12. Survey of Information on the Freezing Aspects of Household Sewage Disposal Systems; (a) Introduction; (b) Review of literature; (c) Recent case histories; (d) Other contacts; (e) School system freeze-ups; (f) Poll of plumbers in northern areas; 13. Appendix A: Review of Literature; (a) Bibliography; (i) Chronological; (ii) Author index; (iii) Cuts of septic tanks; 14. Appendix B: Survey of Controls; (a) Circular letter; (b) Questionnaire; 15. Appendix C: Study of Experimentally Operated Septic Tanks; a) Analytical procedures; (b) Scum volumes—Table 79; (c) Sludge volumes—Table 80; (d) Septic tank details; 16. Appendix D: Study of Septic Tanks in Field, Sludge and Scum Accumulation; (a) Instructions to field engineers; (b) Abbreviated tank identifications; (c) Instructions concerning survey data form; (d) Survey data form; (e) Percolation test procedures; (f) Percolation test data form; (g) Laboratory bench, form—field lab; (h) Scum measuring device—plate 41; (i) Sludge measuring device—plate 42; (j) Sample field survey report; 17. Appendix E: Survey of Information on Freezing; (a) Circular letter to plumbers; (b) Tabulation of plumber response.

ABSTRACT. The significance of the household sewage disposal system in the field of sewage disposal in the United States is amply reflected in the 17 million persons estimated as served by residential septic tank—soil absorption systems (as of 1949). With trends toward living in suburban fringe and rural nonfarm areas, beyond reach of community sewer systems, the continued utilization of some type of individual residential sewage disposal is indicated. Difficulties with the operation of such systems, and attempts on the part of governmental agencies to find and utilize the best available information in this field, have brought out the lack of a basic factual foundation. In order to establish the factual foundation necessary for effective design concepts for the use of governmental agencies as well as others concerned, the Housing and Home Finance Agency and the Public Health Service initiated a broad program of study of this problem, beginning the work in early 1947. This report, the first of a series, presents the findings on several of the individual topics undertaken to date under this program. Additional reports in the series will be prepared from time to time as the work progresses. (For Part II, see item (574) of this reading list.) In that the final significance of results on some of the individual elements, in relation to the system as a whole, cannot be determined until the facts on related elements, either now (1949) under study or to be undertaken later on, are known, caution should be exercised in the application of the piece-meal findings. The work contains many illustrative diagrams, graphs, charts and tables. The project was inaugurated in November 1946, through arrangement by conference and exchange of correspondence between representatives of the National Housing Agency, the Office of the Housing Expediter, and the Public Health Service, and the assignment of a working fund by the National Housing Agency to the Public Health Service for the conduct of the project. The project has been guided by the advice of an Informal Advisory Committee which met from time to time in Cincinnati, and which, at one time or another, included the following persons, as representatives of the agencies indicated: L. Shuman, F. McGhan and E. Hopkins, of HHFA; Professors E. Boyce and R. King, of the University of Michigan; J. R. Simpson, of the Federal Housing Administration; R. Van Derwerker and K. Lauster of the Public Housing Administration; C. A. Betts, of the Forest Service; U. S. Department of Agriculture; L. M. Fisher, H. W. Streeter, and V. G. MacKenzie, of the Public Health Service.

(574) STUDIES ON HOUSEHOLD SEWAGE DISPOSAL SYSTEM —PART II by T. W. Bendixen (Soil Scientist), M . Berk (Chemist), and J. P. Sheehy and S. R. Weibel (Sanitary Engineers), of the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, with the assistance of J. M. Inskeep, J. R. Gibbons, H. D. Ray, N. McGuire, G. C. Kennedy, N. C. Settles, and E. C. Fosher. The work proceeded under the administrative direction of Sanitary Engineer Director V. G. MacKenzie. The project was jointly financed by the Housing and Home Finance Agency and the Public Health Service equally. Project technicians for HHFA were Laurence Shuman, of the Office of the Administrator, and J. R. Simpson, of the Federal Housing Administration; published by the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, 1950.—94 pages; price: 55¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Sponsorship; (b) Objectives under 1948 agreement; (c) Previous report; (d) Personnel; (e) Informal advisory committee; (f) Current studies by others; 2. Summary; 3. Application of Research Results; 4. Septic Tank Compartmentation Studies; (a) Introduction; (i) Design practices; (A) United States; (B) England; (C) India; (D) Australia; (E) New Zealand; (F) Rhodesia; (G) Germany; (H) Poland; (ii) Experimental and survey investigations; (A) Illinois study; (B) Victoria, Australia, study; (b) Previously reported compartmentation studies (1949); (i) Description of tanks; (ii) Tank performance; (c) Continued study of compartmentation; (i) Methods; (A) Seeding; (B) Operation; (C) Sampling; (D) Composite samples; (E) Sludge measurement; (ii) Results; (c) Summary; (d) References; 5. Experimental Studies of Tank Inlets, Outlets and Intercompartment Appurtenances; (a) Introduction; (i) Inlets; (ii) Outlets; (iii) Intercompartment appurtenances; (b) Current study; (i) Description of tanks; (ii) Methods; (iii) Results; (A) Series A; (B) Series B; (C) One, two and three-compartment tanks; (c) Summary; 6. Field Studies of Possible Modifications of the Percolation Test Method; (a) Introduction; (b) Methods; (c) Results; (d) Summary; (e) References; 7. Examination of Field Survey Data—Absorption System; (a) Introduction; (b) Procedures; (c) Results; (i) Unconfined percolation test rates vs. effluent loading rates; (ii) Confined percolation rates out of tile field vs. confined percolation rates in tile field; (iii) Unconfined vs. confined percolation rates; (d) Summary; (e) Reference; 8. Permeability Conditions in Operating Tile Fields; (a) Introduction; (b) System selected for study; (c) Soils description; (d) Experimental methods; (e) Results; (f) Summary; (g) References; 9. Soil Clogging Effects of Septic Tank Effluents; (a) Introduction; (b) Methods; (c) Results and discussion; (i) Natural cores; (ii) Manually packed cores; (d) Summary; (e) Reference; 10. Appendix A: Septic Tank Compartmentation Studies; (a) Septic tank details, plates 24 through 29; 11. Appendix B: Soil Clogging Effects of Septic Tank Effluents; (a) Clogging rates as related to time, plates 30, 32, 33, 34; (b) Clogging rates as related to suspended solids, plates 31, 35, 36, 37.

ABSTRACT. See Abstract for item (573), above. The studies reported herein were initiated in November 1948, pursuant to an agreement between the Housing and Home Finance Agency and the Public Health Service, and are a continuation of the program of studies on household sewage disposal systems inaugurated November 1946 under the responsibility of the (then) National Housing Agency. In connection with the present study, the following members of an Informal Advisory Committee met in Cincinnati in February and April 1949: Laurence Shuman (HHFA); J. R. Simpson (FHA); C. A. Betts (Forest Service, U. S. Department of Agriculture); Professor E. Boyce (University of Michigan Septic Tank Study); and V. G. MacKenzie, A. H. Stevenson, and J. B. Thomas, of the Public Health Service. The report is illustrated by numerous graphs, diagrams, tables and charts.

(581) SEPTIC TANKS—THEIR USE IN SEWAGE DISPOSAL—No author shown. But see names given below; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., December 1951, as "Housing Research Paper No. 18." —16 pages; price: 15¢. Order copies from Superintendent of

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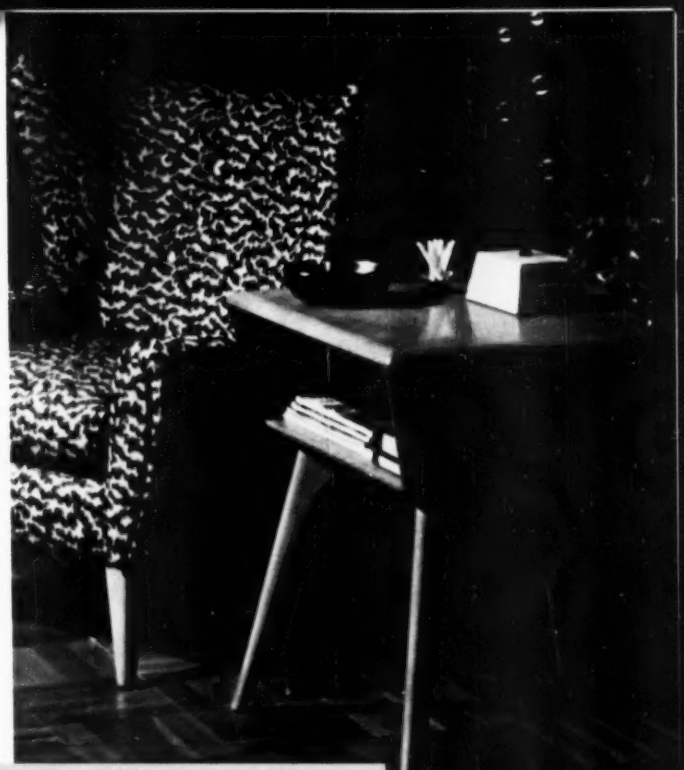

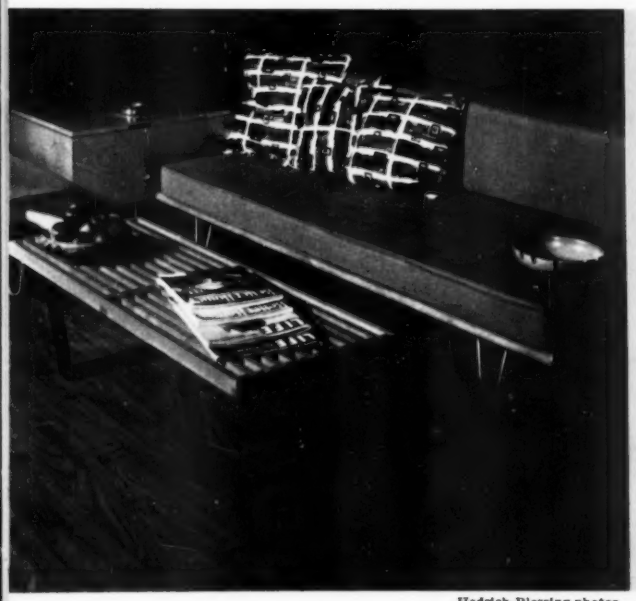

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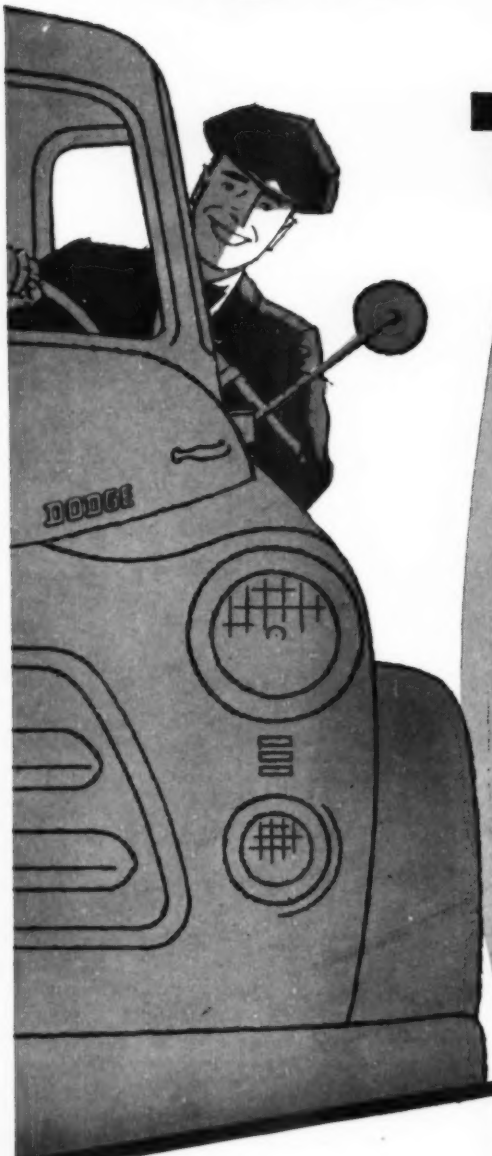

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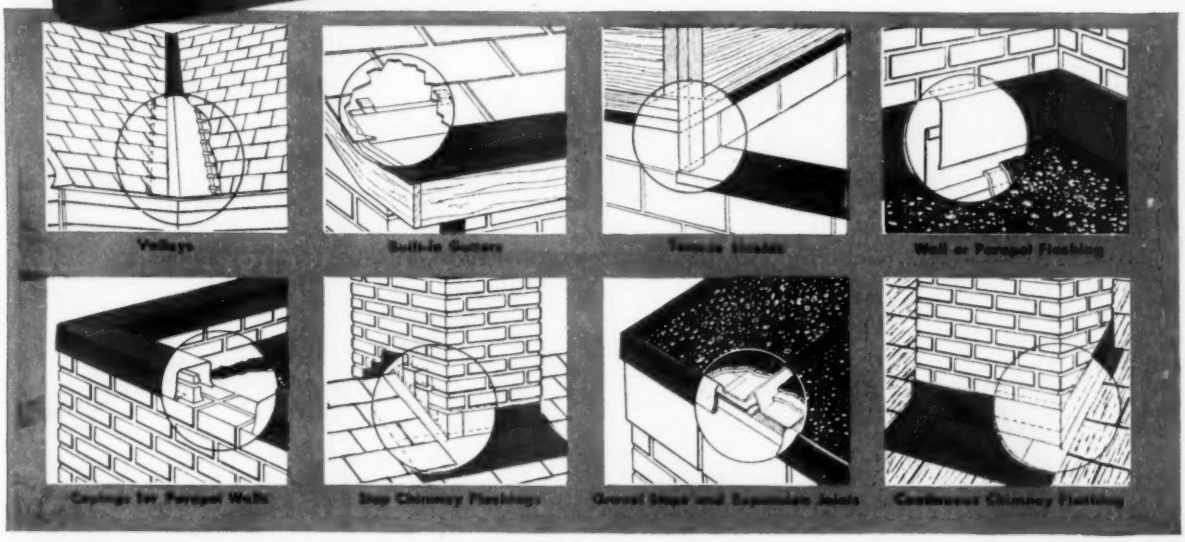

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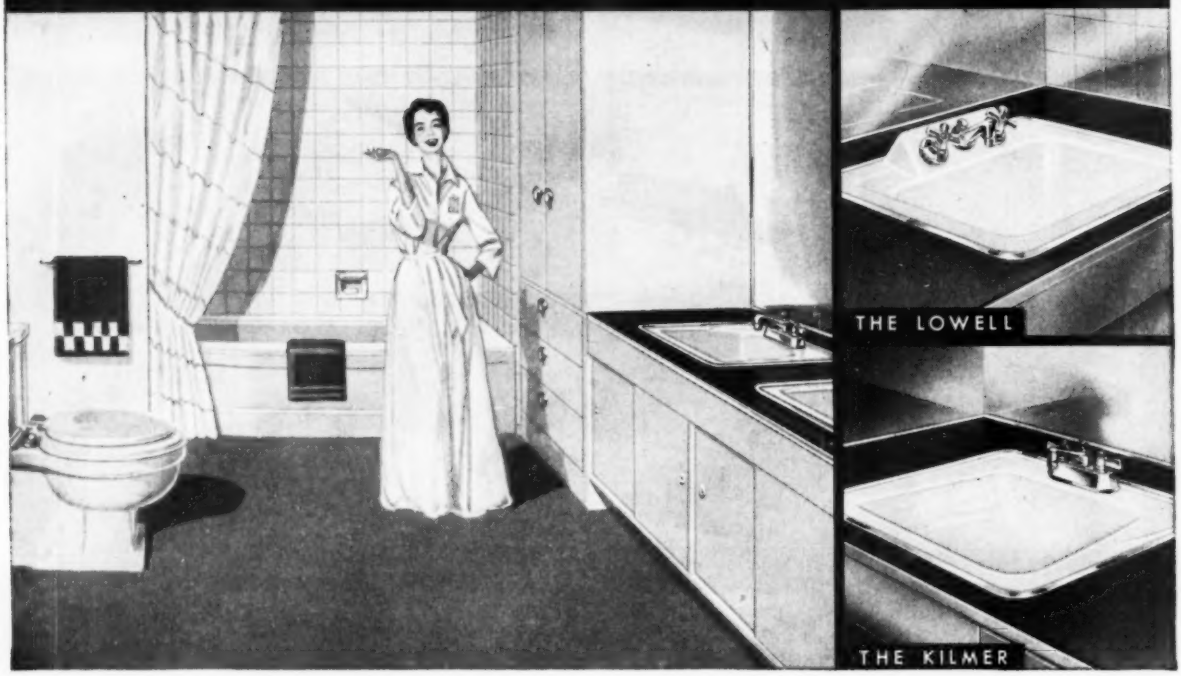

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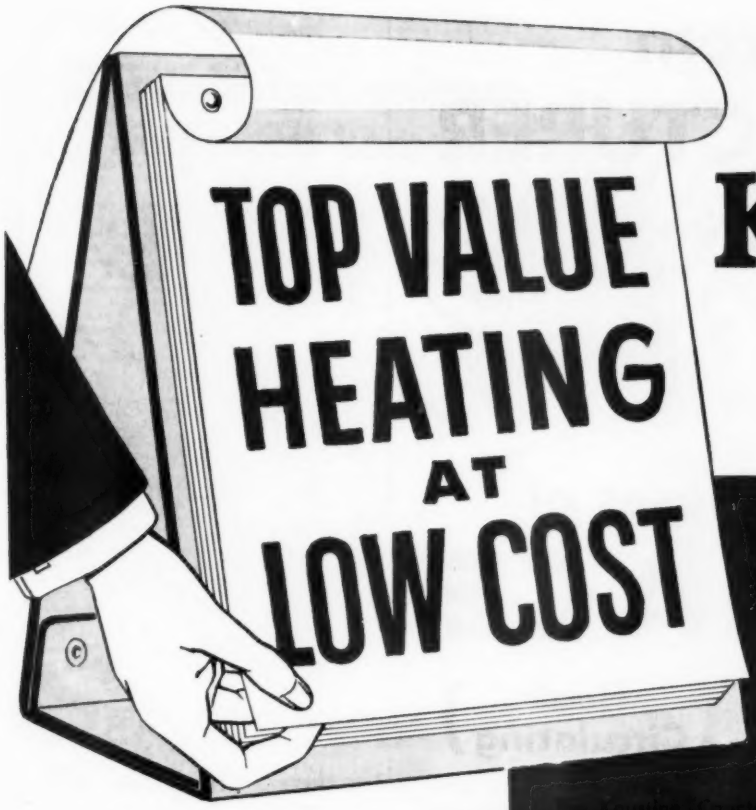

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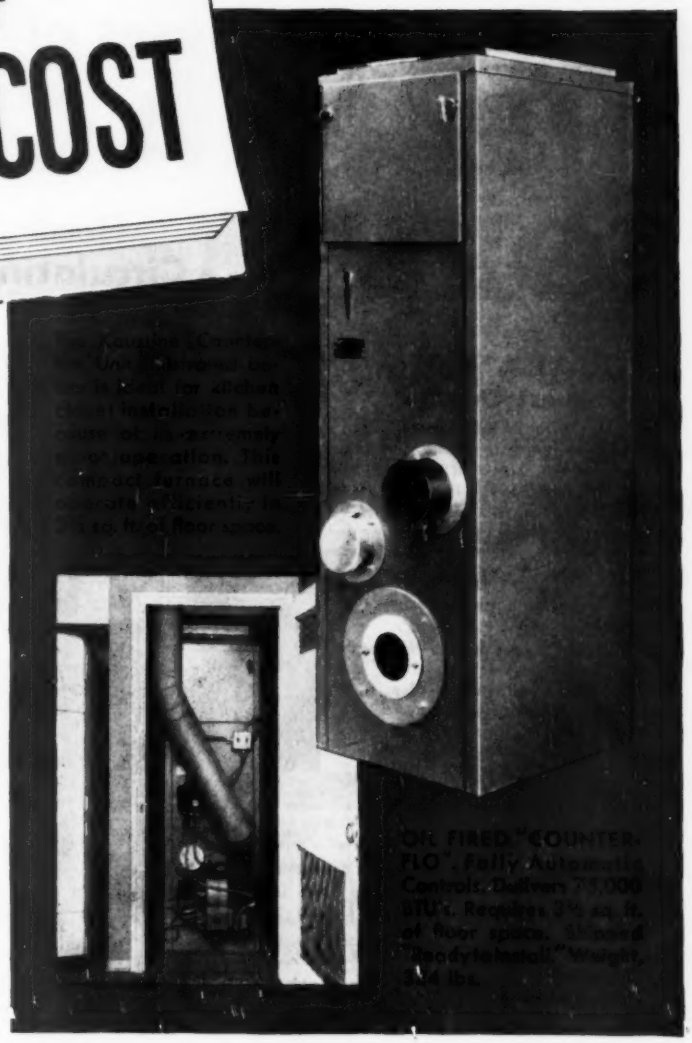

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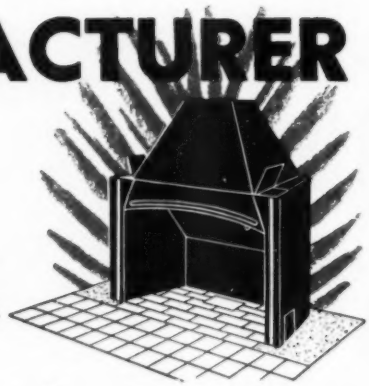

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Includes a consideration of: 1. Introduction; 2. Septic Tank and Disposal Field Action; 3. Summary of Results; 4. Discussion of Research Results; (a) Septic tank compartmentation; (b) Inlets, outlets, and intercompartment appurtenances; (c) Percolation test methods; (d) Absorption systems—final survey; (e) Absorption systems—Permeability conditions; (f) Soil clogging effects of septic tank effluents.

ABSTRACT. A substantial percentage of United States homes depends on septic tanks for sewage disposal. The need for highly efficient, economical septic tanks is increasing generally. In some areas of rapid urban growth related to new emergency expansion of industry the problem is expected to have special importance. This paper summarizes one phase of current research to meet this need sponsored by the Housing and Home Finance Agency and the Public Health Service of the Federal Security Agency, under H.H.F.A. research project ME-1. Laboratory and field work on the project are centered at the PHS Environmental Health Center at Cincinnati. Sanitary engineer S. R. Weibel is PHS project director. Mechanical engineers Laurence Shuman and Fred W. McGhan, of the Technology Branch, HHFA Division of Housing Research, are staff technicians for the project. The Federal Security Agency and H.H.F.A. initiated research on septic tanks under joint sponsorship following World War II. The first report of this program was published by P.H.S. as "Studies of Household Sewage Disposal Systems, Part I 1949," and by H.H.F.A. as a series of articles in *Technical Bulletin* Nos. 1, 4, 7, 10, 11, and 17, and *Technical Paper* No. 14. Finally in 1950, P.H.S. published "Studies of Household Sewage Disposal Systems—Part II." These are included in the present reading list as items (573), (1221), (571), (583), (582), and (574).

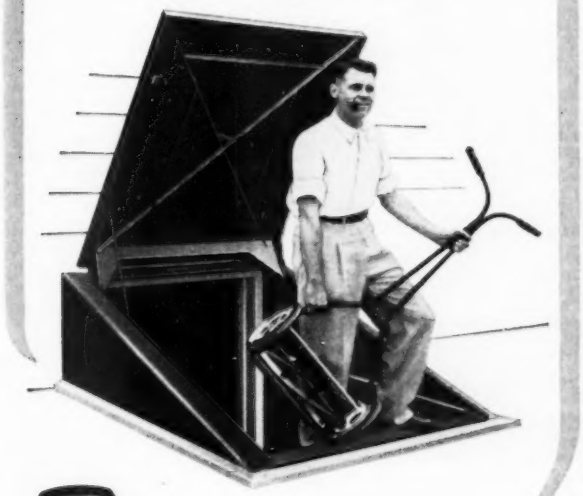
(582) SEPTIC TANK STUDIES (INDIVIDUAL SEWAGE DISPOSAL SYSTEMS) by Laurence Shuman and Fred W. McGhan; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., as "Technical Paper No. 14," May 1950.—84 pages; price: Not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Foreword; 2. Experimentally Operated Septic Tanks; (a) Laboratory methods; (i) Analytical procedures; (ii) Raw Sewage; (iii) Septic tanks; (iv) Seed sludge; (v) Additional sludge; (vi) Feed schedule; (vii) Sampling; (viii) Composite samples; (ix) Grab samples; (x) Temperatures; (xi) Tank performance; (b) Testing operations; (i) Series I tests; (ii) Series II tests; (iii) Statistical summary; (iv) Series III tests; (v) Series IV tests; (vi) Series V tests; (vii) Series VI tests; (c) Analysis of data; (i) Sludge and scum accumulations; (ii) Biochemical oxygen demand; (iii) Sulfides; (iv) Ammonia determinations; (v) Grease; (vi) Chlorides; (vii) Introduction of influent sewage through sludge; (viii) Effect of compartmentation; (ix) Garbage disposal; (x) Color of effluent; (d) Summary and conclusions; 3. Study of Septic Tanks in Field: Sludge and Scum Accumulations; (a) Scope; (b) Number of persons, bedrooms; (c) Water use; (d) Waste disposal distribution; (e) Condition of structural materials; (i) Concrete; (ii) Concrete block; (iii) Vitrified tile; (iv) Brick; (v) Wood; (vi) Steel; (f) Distribution of tanks by years of service; (g) Examination of septic tank sludge and scum accumulation data; (i) Average trends; (ii) Scum buoyancy; (iii) Effect of type of waste on scum and sludge accumulation; (iv) Effect of capacity; (v) Effect of liquid depth; (vi) Effect of surface area; and (h) Summary.

ABSTRACT. A report (including 33 plates and 29 tables) which covers experimental work, test procedures, and performance data on various types of household septic tanks based upon research sponsored by the Housing and Home Finance Agency in collaboration with the Federal Security Agency, Public Health Service, at its Cincinnati Environmental Health Center.

(583) SEPTIC TANK SYSTEMS AND GARBAGE GRINDERS" by

This new convenience helps sell homes



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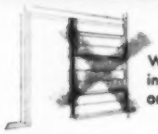

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Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 17*, issued in June 1951, pages 11-16; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington D. C.

Includes a consideration of: 1. Introduction; 2. Recommendations; 3. Experimental Tests; 4. Garbage Quantity and Composition; 5. Septic Tank Design Considerations; and 6. Summary.
ABSTRACT. The Division of Housing Research of the Housing and Home Finance Agency and the Public Health Service of the Federal Security Agency are conducting studies on household sewage disposal systems as a cooperative project at the FHS Environmental Health Center in Cincinnati. The first report of this program has ben published by the PHS as "Studies of Household Sewage Disposal Systems, Part 1, 1949," for which see item (573) of this list, and by the HHFA as a series of articles in *Technical Bulletin* Nos. 1, 4, 7, 10, 11, and *Technical Paper* No. 14, for which see items (1221), (571), and (582) of this reading list.

(i) Garbage Grinders

(591) "FOOD WASTE DISPOSAL UNITS," by Laurence Shuman; in *Housing Research*, October 1952, pages 41-56. Published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Nature of Tests; 3. Discussion and Summary; (a) Operating characteristics; (b) Effects on drainage system; 4. Units tested; 5. Test Apparatus and Procedures; (a) Pressure and flow conditions; (b) Effect of completely clogged drain; (c) Minimum rate of water flow; (d) Grease accumulation; (e) Self-siphonage; 6. Test Results; (a) Pressure and flow conditions in fixture drains; (b) Minimum rate of water flow; (c) Effect of water temperature on grease accumulation in drain; (d) Self-siphonage of traps; (i) With units installed but not running; (ii) With units installed and running; (iii) With units removed; (e) Size of ground particles; and (f) Photographs and tables.
ABSTRACT. What effect do food waste disposal units have on plumbing systems? How should they be installed? The HHFA Division of Housing Research sponsored laboratory testing of typical units to obtain answers to some of these questions. The work was included as part of a research project on performance requirements for building sewer materials, and was done at the National Bureau of Standards U. S. Department of Commerce, under the supervision of H. N. Eaton and R. S. Wyly.

(j) Paint and Painting Techniques

(601) SURFACE TREATMENT OF STEEL PRIOR TO PAINTING by Rolla E. Pollard and Wilbur C. Porter; Building Materials and Structures Report BMS 44; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 8, 1940.—17 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Pretreatments for Galvanized-Steel Surfaces; 4. Pretreatments for Plain-Steel Surfaces; 5. Methods of Testing; 6. Results of Tests; (a) Salt spray; (b) Accelerated-weathering tests; (c) Condensation corrosion tests; 7. Discussion of Results; 8. Summary and Conclusions; (a) Galvanized-steel panels; and (b) Plain-steel panels.
ABSTRACT. A number of surface-treatment processes are described for both plain and galvanized steel. Among such treatments subjected to accelerated weathering, salt spray, and condensation corrosion tests, the hot-dip phosphate treatments for both plain and galvanized surfaces showed outstanding merit in improving the protective value of paints. Particularly effective protection was obtained when such treatments were used, under severely corrosive conditions, in combination with a primer of the inhibitive type. A phosphate coldwash for galvanized steel and two phosphate-chromate cold-wash treatments for plain steel also appeared to improve paint protection.

(602) PAINTING STEEL BY Wilbur C. Porter; Building Materials and Structures Report BMS 102; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 16, 1944.—12 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Priming-Coat Paints; 3. Painting Plain Steel Surfaces; (a) Preparation of the surface; (b) Results of accelerated weathering and outdoor-exposure tests of priming coats on plain steel; 4. Painting Galvanized-Steel Surfaces; (a) Preparation of the surface; (b) Results of accelerated weathering and outdoor-exposure tests of priming coats on galvanized steel; 5. Topcoat Paints; (a) Results of tests of topcoat paints; 6. Summary and Conclusions; and 7. Selected References.
ABSTRACT. More than 60 priming paints for plain and galvanized steel surfaces were tested. Because some of these primings were duplicates or near duplicates and others were considered unsuitable, only 41 have been selected for this report. Accelerated laboratory and outdoor exposure tests were employed to determine the relative value of these primings when applied to treated and untreated galvanized and plain steel panels. Particularly effective protection against corrosion was observed when primings of the synthetic resin zinc chromate type were used over a phosphate-treated surface. Special attention was given to the effect of pretreating new galvanized steel before painting. More than 2,000 galvanized and plain steel panels were prepared for exposure in the various tests. The relative durability to outdoor exposure of 15 topcoat paints is also discussed.

(603) PAINT MANUAL WITH PARTICULAR REFERENCE TO FEDERAL SPECIFICATIONS by Percy H. Walker and Eugene F. Hickson; Building Materials and Structures Report BMS 105; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1945.—165 pages; price: $1.00. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Comments; 3. Comments on Individual Materials; (a) General considerations; (i) Composition by weight and by volume; (ii) Basic specifications; (iii) Amendments to basic specifications; (b) Liquids not generally used alone; (c) Pigments; (d) Ready-mixed oil and varnish vehicle paints; (e) Varnishes and analogous products; (f) Water paints; (g) Miscellaneous materials used by painters; 4. Preparation of Surfaces and Application of Painting Materials; (a) Woodwork; (i) Exterior surfaces; (A) New work; (B) Refinishing; (I) Loose paint; (I) Knots; (II) Additional measures for smoothing surfaces; (IV) Mildew; (V) Application of paint; (C) Staining of shingles and wood; (D)

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ABSTRACT. The need for information on protective coating materials in addition to that given in National Bureau of Standards Technologic Paper T274, published in 1923, has been expressed by various governmental agencies. Many changes in such materials have occurred since that publication, now out of print, was issued. Thus, this manual has been compiled to aid in the procurement of materials that would be suitable and adequate for most kinds of painting and that would assure successful application. The manual is based in large part on Federal Specifications and supplements but does not replace them. It presents recommendations by the National Bureau of Standards and cooperating organizations for the most effective use of painting materials meeting Federal Specifications. Chiefly non-technical in nature, the manual provides practical information for the application of protective coatings. It also explains recent developments in the field of painting and includes pertinent references. Descriptions of approximately 60 paints and paint products are included to enable the painter to choose the most suitable materials for the surface to be covered. Emphasis is placed on methods of applying coatings and preparing surfaces for obtaining maximum protection with the materials used. Where paint failures have occurred, the causes are traced and remedies suggested. The information contained herein cannot supplant the skill of the experienced painter, but should assist the procurement officer in specifying and obtaining the proper paint materials. It should also assist the planner and technical supervisor of work in obtaining and maintaining durable finishes at reasonable cost.

(604) PAINTS FOR EXTERIOR MASONRY WALLS by Clara Sentel; Building Materials and Structures Report BMS 110; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 15, 1947.—19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Paints; (i) Cement-water paints; (ii) Resin-emulsion paints; (iii) Oil-base paints; (iv) Synthetic-rubber paints; (v) Whitewash; (b) Wall specimens; (i) General description; (ii) New common brick; (iii) Used common brick; (iv) Cast concrete; (v) Stone-concrete block; (vi) Cinder-concrete block; (vii) Lightweight-aggregate-concrete block; (viii) Cement-asbestos shingles; 3. Painting the Wall Specimens; (a) General procedure; (i) Preparation of the surface; (ii) Mixing of paints; (iii) Application of paints; (b) Cement-water paints; (c) Resin-emulsion paints; (d) Oil-base paints; (e) Synthetic-rubber paints; (f) Whitewash; 4. Painting the Field Office; 5. Test Results; (a) Basis of evaluation; (i) Appearance and durability; (ii) General rating; (iii) Reflectance; (iv) Spreading rate; (b) Paints; (c) Wall specimens; (i) Performance of coatings on commonly painted surfaces; (ii) Performance of coatings on surfaces not usually painted; 6. Summary and Recommendations; and 7. Appendix.

ABSTRACT. Data on the relative durability and performance of four general classes of masonry paints, cement-water, resin-emulsion, oil-base, and synthetic-rubber, and one whitewash, are given in this report. Out-of-door weathering tests were conducted to determine the serviceability of paints applied to wall specimens constructed of new and used common brick; cast concrete; stone-, cinder-, and lightweight-aggregate-concrete block; and wood frame with cement-asbestos shingles. Formulas for the paints and erection of the wall sections are described, as well as methods for applying paint to the specimens. Ratings based on the weathering characteristics and performance of each type of paint and evaluation of painting methods for coating different surfaces are given. Painted specimens which are discussed in detail in this report were exposed to atmospheric conditions in Washington, D. C., for a period of approximately three years. Results of the same tests for a 6-year period are shown graphically in the appendix. Conclusions are given for the conditions of test described. Durability of the paints was determined on the basis of type of paint used, type of surface coated, methods of application and curing, and conditions of casting and painting.

(605) "ACCELERATED WEATHERING TEST OF TREATMENTS, PRIMING COAT AND FINISH PAINT FOR ALUMINUM SHEET METAL," by Perry H. Petersen; in (H.H.F.A.) *Technical Bulletin No. 17*, issued in June 1951, pages 7-10; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Offices, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Conclusions; 3. Description of Tests; (a) Test methods; (b) Preparation of panels; (c) Results of test exposure; 4. Recommendations for Painting Aluminum; (a) Cleaning; (b) Treatment; (c) Painting, finish coats; (d) Severe exposure conditions; (e) Miscellaneous; and 5. Acknowledgments.

(606) "SELECTION OF DURABLE EXTERIOR WHITE HOUSE PAINT," by William A. Russell; in *Housing Research*, March 1953, pages 17-31; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Paint Composition; 2. The Pigments; (a) Chemically active white lead and zinc oxide; chemically inert titanium dioxide and silicate extenders; 3. The Vehicle; (a) Drying oils such as raw or boiled linseed oil; (b) Bodied oils and resins; (c) Volatile thinners and driers; (i) Turpentine; (ii) Mineral spirits; 4. Modern Paint Formulas; 5. Priming Paint; 6. Guides for Selecting Good Paints; 7. Other Precautions; 8. Causes of Non-durability; 9. Weather Conditions; 10. Preparation of New Wood Surface; 11. Application of Priming Coat; 12. Drying Time Between Coats; 13. Repainting; 14. Number of Coats; and 15. Conclusions.

ABSTRACT. This paper distinguishes between water-filled blisters on painted surfaces, caused by moisture condensation, and the cracking, scaling, peeling, or excessive chalking of the paint due to the use of improperly formulated non-endurable paint. The selection of durable exterior white paint is not difficult once a few basic paint principles are understood. The primary purpose of this article is (1) to outline the functions performed by the principal ingredients which make up modern ready-mixed exterior white paint, and (2) to provide formulas which may be used by the home owner or builder as a guide in selecting paint which will retain a good appearance and gradually weather away in such a manner as to make repainting less costly. Recommendations are based on a survey of trade-brand paints available on the market in 1950, and on extensive exposure tests and observations of houses made since 1922 at the Forest Products Laboratory, U. S. Department of Agriculture, Madison, Wisconsin. The survey was sponsored by the Housing and Home Finance Agency, the research being performed under the direction of F. L. Browne, Chief Chemist, Forest Products Laboratory.

(607) SOLAR HEATING OF VARIOUS SURFACES by Herman V. Cottony and Richard S. Dill; Building Materials and Structures Report BMS 64; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 23, 1941.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Test Procedure; 3. Specimens and Equipment; and 4. Results.

ABSTRACT. Measurements were made on the temperatures attained by a number of painted and other surfaces exposed to the sun, and it was found that surfaces covered with white or light-colored paint remained cooler under this condition than those covered with dark paint. A surface covered with glossy white paint was cooler than any other tried, while one covered with flat white paint was nearly as cool. A lampblack surface was the warmest of the surfaces tried, and one covered with green trim paint was nearly as warm. The temperature attained by surfaces painted with various shades of gray, yellow and ivory paint fell between those reached by the white and the green surfaces. Three colors of commercial roll roofing material—aluminum, green, and red—were tried, and all attained temperatures practically as high as the green or the lampblack surfaces. A surface covered with aluminum foil was cooler than another covered with aluminum paint but was considerably warmer than the white painted surfaces.

(k) Heating Systems, Equipment and Techniques

(621) PERFORMANCE OF A COAL-FIRED BOILER CONVERTED TO OIL by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 111; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1948.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Specimen and Test Equipment; 3. Procedure; 4. Test Results on Combustion Chambers; 5. Boiler Performance with Baffles; 6. Discussion and Conclusions; and 7. References.

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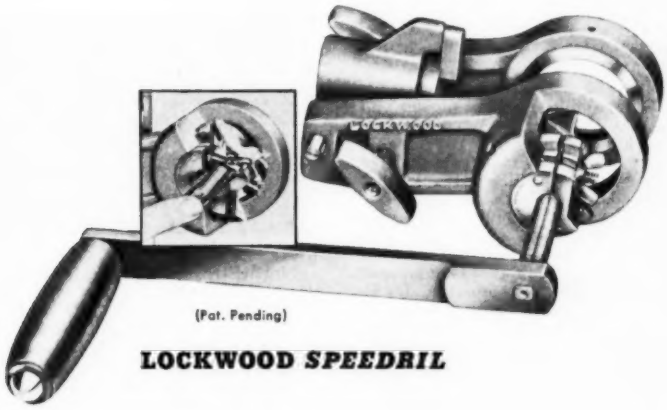

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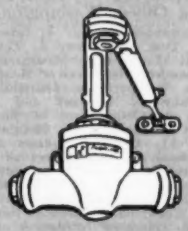

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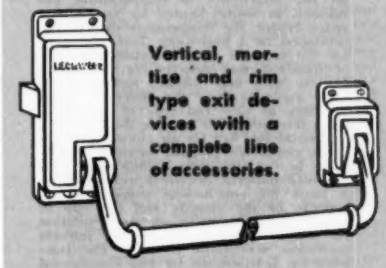

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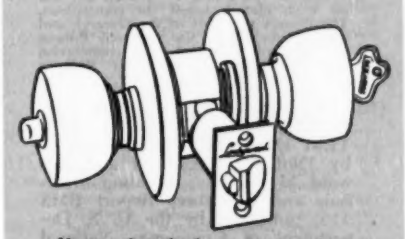

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ABSTRACT. Many coal-fired boilers are converted to the use of fuel oil each year to obtain the greater convenience of liquid fuel. Converted coal-fired boilers are usually not as efficient as boilers originally designed for fuel oil since the efficient combustion of coal requires more combustion space and larger gas passages through the boiler than does liquid fuel. The tests described in this report were made to show the advantage of using a precast lightweight combustion chamber instead of one made of standard firebrick for the oil burner and to evaluate the increase in capacity obtained with two types of cast-iron baffles. The report discusses the performance of a cast-iron boiler designed for coal firing after it had been converted to the use of oil by means of a gun-type burner. It is shown that a refractory firebox of low heat capacity and low thermal conductivity increased the efficiency of the converted boiler several percent, and that baffles which effectively direct the hot combustion gases over the heat-transfer surface increased the capacity of the boiler up to 27 percent. The project was part of the research program on heating plants for small homes being conducted at the National Bureau of Standards in collaboration with the National Housing Agency and its technical staff.

(622) TEMPERATURES IN A TEST BUNGALOW WITH SOME RADIANT AND JACKETED SPACE HEATERS by Paul R. Achenbach; Building Materials and Structures Report BMS 114; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 28, 1949.—44 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. The Test Bungalow; 3. Test Specimens; 4. Temperature Measurements; 5. Test Procedure; 6. Effect of Heater Location on Temperature Distribution; 7. Comparison of Radiant and Jacketed Heaters; 8. Comparison of Jackets; 9. Effect of Heater Size; 10. Height of Heat Source; 11. Open Transoms over Interior Doorways; 12. Effect of Outside Temperature on the Temperature Distribution; 13. Effect of Circulating Fan; 14. Performance of Space Heaters with Integral Fans; 15. Underfloor Return Plenum; 16. Effect of Insulation under the Floor Joists; 17. Radius of Warmth Attainable with a Space Heater; 18. Mean Radiant Temperatures; 19. Summary and Conclusions; 20. Selected References; and 21. Appendix.

ABSTRACT. To provide additional data on the uniformity of temperatures obtainable in houses heated by means of a space heater, the temperature distribution produced in a four-room Test Bungalow on the grounds of the National Bureau of Standards was observed for three space heaters with and without jackets. Tests were made to show the effect of heater location, of size and type of jacket, of open transoms over interior doorways, of an unattached fan for air circulation, and of an underfloor plenum on the temperatures in the four-room house. The temperature patterns obtained were used as a basis for conclusions concerning the severity of the climate and the size of houses of similar materials and insulation for which space heaters could provide minimum acceptable comfort. The temperature distributions for two commercial models of space heaters burning gas and oil were also included for comparison. The project was part of the research and testing program at the National Bureau of Standards conducted in cooperation with the Housing and Home Finance Agency and its technical staff.

(623) A STUDY OF A BASEBOARD CONVECTOR HEATING SYSTEM IN A TEST BUNGALOW by Paul R. Achenbach and Edward M. Tierney; Building Materials and Structures Report BMS 115; published by the U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 1, 1949.—20 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment; a. The Test Bungalow; b. Insulated Enclosure; c. Heating System; d. Controls; e. Temperature Measurements; 3. Test Procedure; 4. Temperature Distribution; 5. Heat Loss; 6. Room Temperature Controls; 7. Pick up Characteristics; 8. Heat Emission of Convector; 9. Discussion and Conclusions; 10. References; and 11. Glossary of Selected Heating Terms.

ABSTRACT. The increase in construction of small houses without basements has resulted in efforts to provide heating systems that will produce comfort in such houses when the heater is located on the first floor. A recently developed distribution system that uses finned piping adjacent to all the exterior walls of a house at the baseboard level appears to offer greater comfort near the floor of basementless houses than some other systems now in use. The tests described in this report were made to determine the temperatures produced at several levels above the floor with one form of baseboard heating system and to study the characteristics of two types of room-temperature controls with that kind of heating system in a partially insulated frame house. The project was part of the research program carried on at the National Bureau of Standards in cooperation with the Housing and Home Finance Agency and its technical staff. In these tests the temperature distribution produced by a baseboard convector heating system was observed in a 4-room Test Bungalow on the grounds of the National Bureau of Standards. The distribution system consisted of finned sections of iron pipe placed beneath the windows, standard iron pipe connecting the finned elements in a continuous loop around the house at the baseboard level, and a hot-water boiler located on the first floor. The vertical temperature differences, room-to-room temperature differences, heat loss of the house, and the heat emission per unit length of finned pipe were observed for a range of outside air temperatures. In addition, the control of room temperature provided by an electric room thermostat and by an outdoor-thermostat control and modulating water-flow valve were compared for steady outside air temperatures. The characteristics of the outdoor-thermostat control and modulating water-flow valve were also studied for transient outside air temperatures and under pick-up conditions indoors.

(624) PERFORMANCE OF MASONRY CHIMNEYS FOR HOUSES by Robert K. Thulman (For the names of other contributors, see below); published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., as *"Housing Research Paper No. 13,"* (Revised and Reprinted from *"Technical Paper No. 13,"* August 1949), November 1952.—46 pages; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Fire Loss Statistics; (b) The "Standard Ordinance Chimney"; (c) Scope of Chimney Test program; 2. Chimney Performance Requirements; (a) Theoretical draft; (b) Variables in draft; (c) Temperature; (c) Flue gas temperature standards; (d) Temperatures attained in practice; (e) Condensation in flue gases; (f) Effect of condensation; (g) Summary of chimney requirements; 3. Code Practices—Required and Permitted; (a) Minimum area of flue; (b) Flue size based on area of smoke outlets; (c) Flue dimensions; (d) Revised requirements; 4. Tests; (a) Comparison of 9" x 9" and 9" x 13" flues; (b) Observed and calculated drafts; (c) Flue gas flow rates; (d) Temperature in breeching vs. temperatures in flue; (e) Effects of flue size and flue gas volume; (f) Temperature in breeching vs. temperature at base of stack; (g) Effect of draft stabilizers; (h) Dissipation of heat; (i) Comparative tests on four 15-foot masonry chimneys; (j) Round flue vs. rectangular flue; (k) Drafts produced; (l) Comparison of temperatures; (m) Effect of internal surface area; (n) Fire hazard tests; (o) Comparison of lined and unlined chimneys; (p) Tests of lined chimneys; (q) Time-temperature tests; (r) Criteria for safety; 5. Conclusions; and 6. Recommendations.

ABSTRACT. A report covering procedures and results of tests of the performance of masonry chimneys in regard to draft characteristics and the protection afforded against fire hazards. The laboratory research forming the basis for this report was performed under the Standardized Building Codes and Materials program of the Housing and Home Finance Agency under agreement with the National Bureau of Standards, U. S. Department of Commerce. The original (August 1949) edition of this publication was prepared under the supervision of Leonard G. Haeger, Director, Division of Standardized Building Codes and Materials, and Laurence Shuman, Chief of the Mechanical Engineering Section. R. S. Dill and N. D. Mitchell supervised the research work on the project at the National Bureau of Standards, under the direction of Douglas E. Parsons, Chief, Building Technology Division.

(625) "METALS SAVING TRENDS IN DOMESTIC HEATING" by Robert K. Thulman; in *Housing Research*, Winter 1951-1952, pages 1-6. Published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Trends in House Size and Design; (a) House size and type; (b) Trends in glass area; 2. Trends in Construction; (a) Increased use of insulation; (b) Floor construction; (c)Metal saving through insulation; 3. Heating Fuel Trends; (a) Heating fuel affects metals use; 4. Heating Methods Trends; (a) Systems affect amount of metal; (b) Comfort as a factor in choice of systems; (c) Recently developed systems; and 5. Conclusions.

ABSTRACT. Domestic heating systems account for a major part of the metals normally used in home building. Metals are scarce during an emergency. Results of the HHFA Materials Use Survey permit a comparison between metals used in house heating in 1950 with their use for this purpose a decade earlier. This article examines trends in domestic heating revealed by this comparison, as they bear directly on contemporary problems of metals conservation.

(I) Moisture Resistance, Insulation and Vapor Barriers

(641) "DURABILITY OF MOISTURE-RESISTANT MEMBRANE MATERIALS IN CONTACT WITH THE GROUND" by William A. Russell; in *Housing Research*, October 1952, pages 23-28; published by Housing and Home Finance Agency, Washington, D. C.; price: 30¢. This article *alone* is available for 5¢ as H.H.F.A. Technical Reprint No. 15. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

This article summarizes recently completed research regarding the durability of roofing felt and roll roofing when used for waterproofing membranes in contact with the ground where they are subject to rot fungi commonly associated with damp soil. Conclusions reached are that unprotected 15-lb. asphalt-saturated roofing felt in contact with the ground, either as soil cover in a crawl-space house or as a membrane under a slab-on-the-ground floor, would be destroyed by the fungi in a few years. Roll roofing, on the contrary, which is heavily impregnated and coated with asphalt, would be expected to provide an effective and durable membrane for many years at little or no increase in cost. The research was conducted under an HHFA research contract by the Bureau of Plant Industry,

Soils and Agricultural Engineering, U. S. Department of Agriculture, at the Forest Products Laboratory, Madison, Wisconsin, in cooperation with the National Bureau of Standards, U. S. Department of Commerce. The article includes a consideration of: 1. General Approach; 2. Details of Specimens; 3. Test Procedure; 4. Culture Apparatus; 5. Fungi; 6. Feeder Blocks; 7. Test Period; 8. Observations; 9. Significance of Tests; 10. Membrane Requirements in Crawl Spaces; 11. Recommendation; 12. Membranes Under Slab-on-Ground Floors; 13. New Membrane Developments; 14. Recommendations; 15. Cost; and 16. Acknowledgments.

(642) "PREVENTION OF DAMPNESS IN BASEMENTS" by Perry H. Petersen; in *Technical Bulletin* No. 14, pages 15-21; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. This paper *alone* is available for 10¢ as H.H.F.A. Technical Reprint No. 11. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Forms of Dampness; (a) Leakage; (b) Capillarity; (c) Condensation; 2. Causes of Dampness; (a) Improper drainage; (b) Poor masonry; (c) Improper or imperfect waterproofing; (d) Inadequate insulation; (e) High humidity; 3. Precautions During Construction; (a) Selection of site; (b) Surface drainage; (c) Subgrade drainage; (d) Water-resistant construction; (e) Waterproof construction; (f) Insulation; (g) Miscellaneous; 4. Remedies After Construction; (a) General; (b) Ventilation; (c) Heating; (d) Dehumidification by chemicals (hygroscopic materials); (i) Non-reusable materials; (A) Calcium chloride; (B) Lithium chloride; (ii) Reusable materials; (A) Silica gel; (e) Mechanical refrigeration dehumidifiers; and 5. Recommendations. The article is illustrated with three figures representing sub-grade drainage; water-resistant construction; and waterproofed construction.

(643) "WATER VAPOR TRANSMISSION OF BUILDING MATERIALS USING FOUR DIFFERENT TESTING METHODS" by Ralph R. Britton and Robert C. Reichel; in *Technical Bulletin* No. 12, pages 13-15; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Definitions; 3. Description of Materials; 4. Conditions of Exposure; 5. Results and Discussion; and 6. Conclusions.

ABSTRACT. Due to the existence of a large number of test methods for determining the water vapor transmission rates of materials and the fact that these methods differ widely in the conditions of exposure and the terminology used in expressing results, a great deal of confusion and misunderstanding have resulted among those engaged in building construction practices. The purpose of this investigation was to determine the degree of correlation between four different test methods believed suitable for determining the water vapor transmission of building materials used for dwelling construction.

(644) "REPORT ON TESTS FOR CONDENSATION ON REFLECTIVE INSULATION UNDER WOODEN FLOOR" by Laurence Shuman; in *Technical Bulletin No.* 12, pages 9-12; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. This report describes tests made at the National Bureau of Standards, U. S. Department of Commerce, to determine whether, and under what conditions, condensation would form in air spaces where reflective insulation was installed below a wood floor laid over a crawl space. It includes a diagram of the test box showing arrangement of the apparatus.

(645) "WATER VAPOR RESISTANCE OF BUILDING MATERIALS" by Ralph R. Britton and Robert C. Reichel; in (H.H.F.A.) *Technical Bulletin No. 11,* issued September-November, 1949, pages 7-13; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Definitions; (a) Vapor barrier; (b) Breathing paper; (c) Standard atmospheric test conditions; (d) Dry test method; (e) Wet test method; 3. Test Methods; 4. Facilities for Testing; 5. Standards of Quality; 6. Identification; 7. Breathing type materials; (a) Red rosin sheathing paper; (b) Spaced wood sheathing; (c) Stucco; (d) Class D building paper; 8. Vapor barrier materials; (a) Asphalt-treated building papers; (b) Asphalt-laminated building papers; (c) Mounted metal foils; (d) Paint; (e) Washable specialty wall coverings; (f) Class A and Class B building papers; 9. Specific List of Breathing Type Materials; and 10. Specific List of Vapor Barrier Materials.

ABSTRACT. This paper elaborates and clarifies on specific items necessary for the construction industry to make use of material in the condensation control field.

(m) Electrical Wiring

(661) "ASPECTS OF ELECTRICAL CONDUIT INSTALLATIONS IN HOUSES" by Jefferson D. Brooks; in *Technical Bulletin No. 12*, pages 1-7; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Fittings; 2. Bends; 3. Miscellaneous Requirements; 4. Example of Selection of Wire-Carrying Capacity; 5. Number of Wires in a Conduit; and 6. Example of a Conduit Size Selection.

ABSTRACT. The purpose of this article is to point out minimum requirements for the safe installation of steel conduits commonly used in houses, especially those of fire-resistive construction. Methods of selecting conduit sizes for various combinations of wires are included.

(662) "LOW-COST WIRING METHODS AND MATERIALS FOR HOUSES" by Jefferson D. Brooks; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 17-28; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

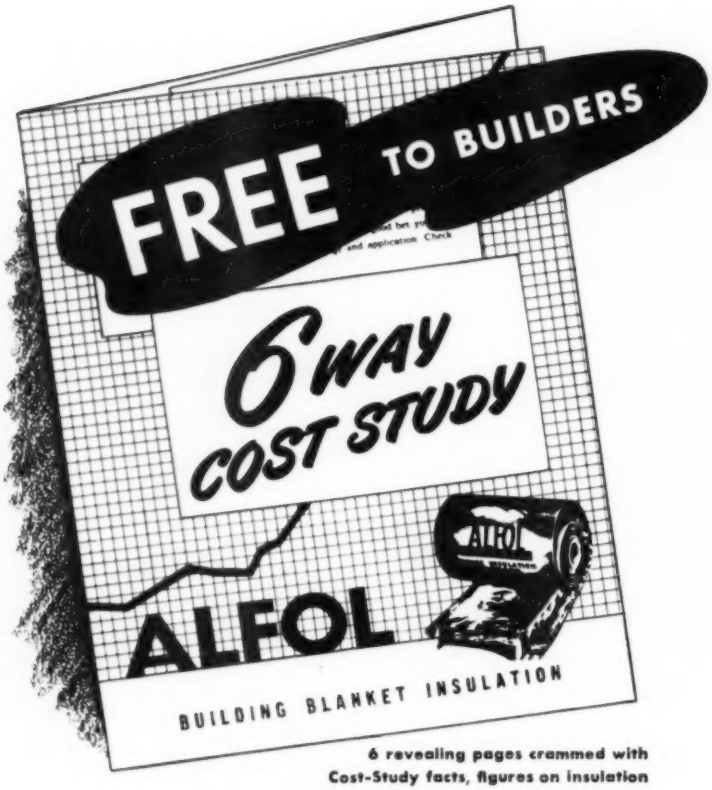
Includes a consideration of: 1. Open Wiring on Insulators; 2. Concealed Knob-and-Tube Work; 3. Armored Cable; 4. Nonmetallic Sheathed Cable; 5. Service-Entrance Cable; 6. Nonmetallic Waterproof Wiring; 7. Surface Metal Raceway; 8. General Requirements for Wiring Methods; 9. Conductors; 10. Outlet and Switch Boxes; 11. Switches; 12. Receptacles; and 13. Wall Plates.

ABSTRACT. The purpose of this article is to point out minimum requirements for the safe installation of flexible, metal-armored cable systems, nonmetallic wiring systems and surface metal raceway systems for use in houses of ordinary construction. The article is illustrated by ten figures.

(n) Fire Resistance of Materials

(681) FIRE RESISTANCE CLASSIFICATIONS OF BUILDING CONSTRUCTIONS—Report of the Subcommittee on Fire-Resistance Classifications of the Central Housing Committee on Research, Design, and Construction. Chairman of the Subcommittee: John W. Dunham, Public Buildings Administration; Building Materials and Structures Report BMS 92; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 7, 1942.—70 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. A Fire-Resistance Classification of Building Types; (a) Types of construction; (i) Fireproof construction; (ii) Incombustible construction; (iii) Exterior-protected construction (iv) Wood construction; (b) Fire severity; (c) Fire-resistant ratings; 3. Restrictions and Limitations in their Relation to Types of Construction; (a) Location with respect to fire zones; (b) Restrictions based on height of building (by the four types of construction); (c) Restrictions on location with respect to common property lines or adjacent buildings construction; (d) Restrictions based on area of building (by the four types of construction); (e) Restrictions on type of materials in building members and building finish; (f) Restrictions based on degree of fire resistance of structural members; (g) Restrictions based on occupancy; 4. Survey of Combustible Contents of Buildings; 5. Fire-Resistance Ratings for Building Construction and Materials; (a) Fire-resistance ratings for load-bearing masonry walls; (i) Test conditions; (ii) Sources of data; (iii) Extension and interpolation of test results; (iv) Effect of plaster; (v) Combustible members framed into wall; (vi) Fire-resistance ratings; (b) Fire-resistance ratings for masonry partitions; (i) Test conditions; (ii) Sources of data; (A) Magnesium oxysulfate wood-fiber blocks; (B) Hollow glass blocks; (C) Gypsum blocks; (D) Structural clay tile; (E) Hollow concrete units; (iii) Fire-resistance ratings; (c) Fire-resistance ratings for steel-framed partitions and steel-framed brick-veneered walls; (i) Test conditions; (ii) Sources of data; (iii) Plaster; (iv) Fire-resistance ratings; (d) Fire-resistance ratings for wood-and-metal-framed partitions; (i) Test conditions; (ii) Sources of data; (iii) Interpolation of test results; (iv) Framing; (A) Wood framing; (B) Metal-framed hollow partitions; (C) Metal-framed solid partitions; (v) Fire-stopping; (vi) Mineral-wool fill; (vii) Board facings and plaster bases; (viii) Plaster; (ix) Fire-resistance ratings; (x) Partition facings as fire-protective finishes over wood framing; (e) Fire-resistance ratings for walls and partitions with cement-asbestos facings; (i) Test conditions; (ii) Sources of data; (iii) Firestopping; (iv) Fire-resistance ratings; (v) Facings as fire-protective finishes over wood framing; (f) Fire-resistance ratings for prefabricated and built-up partitions; (i) Test conditions; (ii) Sources of data; (iii) Assembly of prefabricated wood panels; (iv) Flame-proofing; (v) Load-carrying ability of



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resistance ratings for prefabricated and built-up and prefabricated wood or steel partitions; (g) Fire-resistance ratings for columns; (i) Test conditions; (ii) Effect of plaster; (iii) Sources of data; (A) Timber columns; (B) Round cast iron columns; (C) Steel pipe columns; (D) Structural steel columns (unprotected); (E) Structural steel (solid section) partly protected with concrete; (F) Structural steel (latticed) partly protected with concrete; (G) Structural steel solidly protected with concrete; (H) Structural steel protected with hollow tile and concrete; (I) Structural steel protected with hollow tile; (J) Structural steel protected with brick; (K) Structural steel protected with hollow cinder concrete blocks; (L) Structural steel protected with plaster; (M) Structural steel protected with gypsum; (N) Reinforced concrete columns; (iv) Fire-resistance ratings; (h) Fire-resistance ratings for floor constructions; (i) Test conditions; (ii) Source of data; (iii) Plaster; (iv) Fire-resistance ratings for wood-joist floors; (v) Fire-resistance ratings for steel-joist floors; (vi) Fire-resistance ratings for steel-plate floors; (vii) Fire-resistance ratings for cellular steel floors; (i) Fire-resistance classification of roof coverings; (i) Basis of classification; (ii) Sources of data; (iii) General requirements; (iv) Lists of acceptable roof coverings; (A) Built-up roof coverings; (B) Prepared roof coverings; 6. Appendix A: Summary of Restrictions and Limitations in Six Typical Building Codes Based on Types of Construction (NOTE: The building codes studied are those for New York City, Boston, Minneapolis, Atlanta, Denver, and Seattle); (a) Classifications; (i) Classification of structure by type of construction; (ii) Classification by occupancy; (b) Location with respect to fire zones; (i) Number of zones, including an unrestricted area; (ii) Restrictions and limitations; (c) Permissible spacing from adjacent construction or property lines; (d) Permissible heights and areas of buildings; (e) Permissible materials; (f) Required degree of fire resistance of structural members; (g) Permissible occupancies; (h) Discussion of current building code restrictions in their relation to types of construction; (i) Classification of buildings by type of construction; (ii) Occupancy classifications; (iii) Fire zoning; (iv) Spacing from adjacent construction or property line; (v) Height and area limitations; (vi) Permissible materials; (vii) Required fire resistance; (viii) Permissible occupancies; 7. Appendix B: Methods of Estimating Fire-Resistance Periods; (a) General method of estimating the ultimate fire-resistance periods of walls and partitions; (b) General method of estimating the ultimate fire-resistance periods of columns; (i) Protected metal columns; (ii) Reinforced concrete columns; (c) Applications made in the present report.

ABSTRACT. A classification of building construction from the standpoint of fire safety is presented by a committee of representatives of Federal agencies concerned with the design, construction, and operation of buildings. By considering only the basic properties having a bearing on fire hazard and fire resistance, four types were found sufficient to cover the whole range of building construction. Within each type are two or more classes which are defined by the fire resistance required for their structural members. In chapter I this classification is outlined and information given on how it can be applied with reference to the fire severity obtaining for given structural and occupancy conditions. Chapter II contains a discussion of the types of restrictions and limitations generally incorporated in building codes, with particular reference to their application to the classification of building types herein presented. Chapter III gives results of surveys of combustible contents of buildings housing typical occupancies as a basis for estimation of fire severity. In Chapter IV are given available fire-resistance ratings of building constructions and fire-resistance classifications of roofing materials. The report should be of value in presenting building classifications and pertinent related data on the basis of which restrictions on size, location, and structural components of buildings can be applied to give a required degree of safety with the economical use of a wide range of acceptable materials.

(682) TESTS OF STEEL COLUMNS PROTECTED WITH SILICEOUS AGGREGATE CONCRETE by Nolan D. Mitchell; Building

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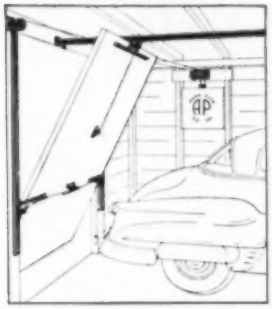

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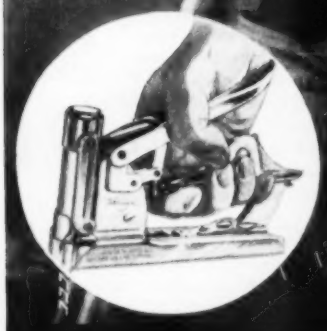

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Materials and Structures Report BMS 124; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 25, 1951.—12 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction of Columns; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

ABSTRACT. Results of fire-endurance tests of four 6-in. steel H-columns protected with concrete made with highly siliceous aggregates are presented. (The term "siliceous" as used herein conforms to the usage in building codes in which it is construed to embrace the minerals composed wholly or largely of quartz, chert, flint, etc.) The concrete was of 2-in. thickness around the column shaft and filled the reentrant spaces. The aggregates investigated were river gravel and crushed quartz. The columns were subjected to load throughout the tests. The loads on three columns of magnitude as computed by a standard formula for allowable load were constant. One column sustained a double load throughout the earlier part of the test. The fire-endurance limits ranged from 2 hr 50 min for a column with crushed quartz aggregate concrete to 3 hr 34 min for one with gravel aggregate concrete. The results were consistent for columns protected with gravel aggregate concrete, and within reasonable limits for columns covered with quartz aggregate concrete. The results of the column tests with respect to lack of spalling of the concrete were confirmed by tests on concrete wall slabs made with the same or like aggregates. The fire-endurance limits of protected columns described in this report may serve as a guide for the selection of constructions to meet building code requirements, and as a measure of the extent of compliance of building practice with existing codes.

(683) FIRE RESISTANCE OF SHUTTERS FOR MOVING STAIRWAY OPENINGS by Nolan D. Mitchell, Edward D. Bender, and James V. Ryan; Building Materials and Structures Report BMS 129; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 1, 1952.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction; 3. Test Method and Equipment; a. Floor-Test Furnace; b. Temperature Measurements; 4. Results; 5. Summary and Conclusions; a. Resistance of Shutter; b. Effects of Thermal Expansion; c. Effectiveness of Design Changes made for Test B; d. Passage of Hot Gases; and e. General Comments.

ABSTRACT. The results of one exploratory and two full-scale fire-endurance tests on flexible rolling shutters for closing moving stairway openings are given. The test specimens in the latter two tests included the balustrading of a normal installation. The shutters were made of galvanized steel slats moving on rollers and were of the same design in all the tests. The shutters could be operated by hand or by power drive. The results of the fire-endurance tests indicated that the first full-scale installation design was not satisfactory because of distortions due to differential expansion of the guide rails and other structural parts. The second design, with modifications to provide for the expansion of structural parts without undue distortion, proved adequate for 3-hr fire resistance. As moving stairways are used extensively in commercial buildings in which unprotected openings through floors might permit the passage of fire with disastrous results, the information contained in this report should be of interest to architects, the building industry, and regulatory bodies concerned with specifications or building-code requirements pertaining to moving-stairway installations.

(684) FIRE TESTS OF STEEL COLUMNS ENCASED WITH GYPSUM LATH AND PLASTER

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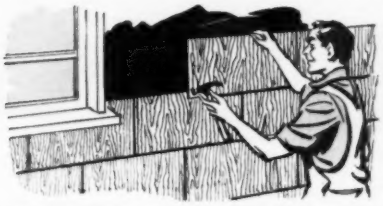

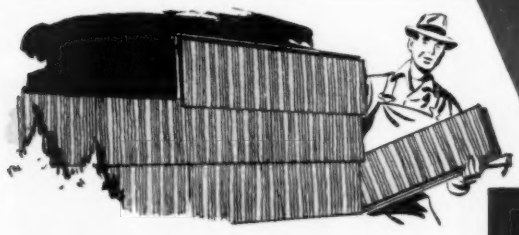

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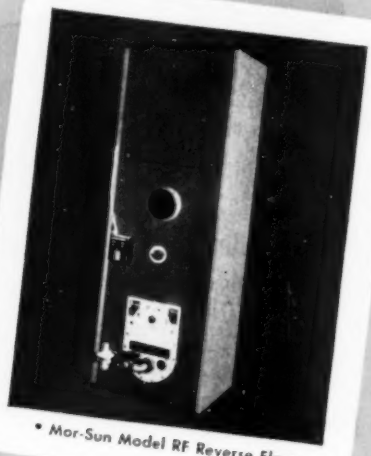

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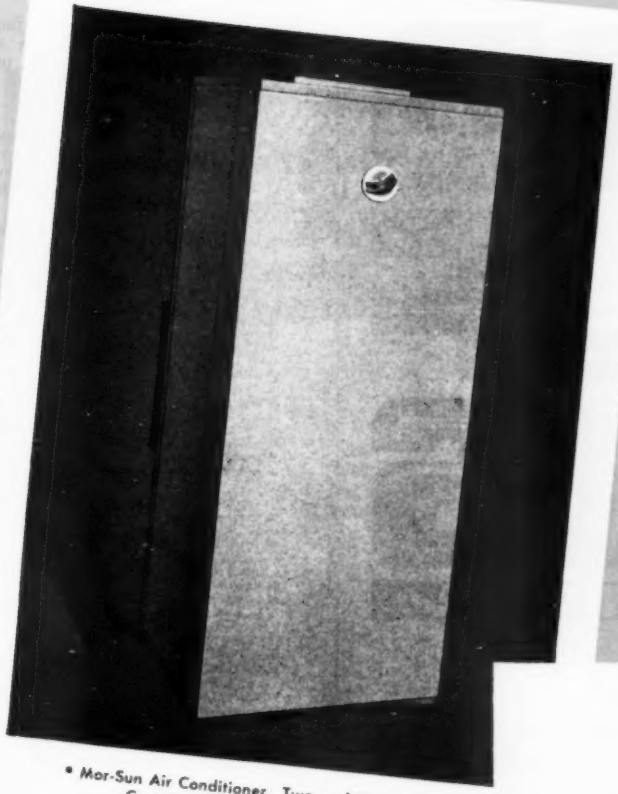

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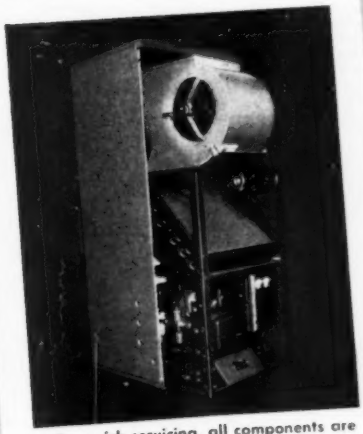

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by Nolan D. Mitchell and James V. Ryan; Building Materials and Structures Report BMS 135; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 3, 1953.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Steel columns; (b) Laths; (c) Lathing accessories; (d) Plaster; (e) Aggregates; 3. Construction Details; (a) Thermocouple mounting; (b) Column end protection; (c) Assembly of plaster bases; (d) Plastering; (e) Aging; 4. Test Method and Equipment; (a) Specifications and end-point criteria; (b) Column-testing furnace; (c) Temperatures; (d) Deformations; 5. Results of Tests; 6. Discussion; (a) Variations Among Test Specimens; (b) Plaster bases; (c) Plasters; (d) Plaster aggregates; (e) Plaster thicknesses; (f) Plaster reinforcement; (g) Size of column; (h) Workmanship; (i) Effectiveness of combined and free water; and 7. References.

ABSTRACT. The results presented are those derived from fire-endurance tests of 16 steel columns encased with gypsum lath and gypsum plasters. The laths were wired into place; those on eight columns were of the ⅜-in. thick perforated type in a single layer, those on seven of the other eight columns were of two layers of the ½-in. thick plain type, and on the other a single layer. Six of the latter eight also had a layer of wire fabric to reinforce the plaster. Expanded perlite was used as the plaster aggregate for 13 columns, sand for two, and vermiculite for one. The thickness of the plasters ranged from ½-in. to 2 in., and those of the encasements from ⅞-in. to 2-½ in. The fire-resistance values indicated by the tests varied with the composition, reinforcement, and thickness of the protective coverings, and to some degree with the size of the column. The fire-endurance limits, as determined from the tests, ranged from 1 hr. 23 min. for a 10-in. steel H-section column protected with ⅜-in. perforated lath and ½-in. of sanded gypsum plaster to 4 hr. 42 min. for one protected with two layers of ½-in. lath, and a 1½-in. thickness of perlite-gypsum plaster reinforced with wire fabric. The fire-endurance limits described may serve as a guide for the selection of constructions to meet building code requirements and as a measure of the extent of compliance of building practice with existing codes.

(o) Nails and Nailing

(701) TECHNIQUE OF HOUSE NAILING by Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in collaboration with the technical staff of the Housing and Home Finance Agency; published by Housing and Home Finance Agency, Technical Staff, Washington, D. C., November 1947.—53 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Purpose; 3. Scope; 4. Recommendations for Nailing; 5. Key to Drawings; 6. Sill; 7. Double Sill; 8. Two-Piece Girder; 9. Three-Piece Girder; 10. Ledger; 11. Joist; 12. Joist Notched Over Ledger Strip; 13. Joist Bearing on Girder; 14. Overlapping Notched Joist Bearing on Ledger Strip; 15. Notched Joist Bearing on Ledger Strip; 16. Bridging; 17. Subfloor; 18. Plywood Subfloor; 19. Sole Plate; 20. Corner Post; 21. Studs; 22. Anchorage of Studs to Sills; 23. Top Plate and Bracing; 24. Ribbon; 25. Joist Bearing on Ribbon; 26. Floor Opening; 27. Door Opening; 28. Window Opening; 29. Jack Rafter; 30. Roof Peak; 31. Rafter Ends; 32. Notched Gable Stud; 33. Beveled Gable Stud; 34. Partition-Wall Connection; 35. Porch Connection; 36. Diagonal Wall Sheathing; 37. Horizontal Wall Sheath-

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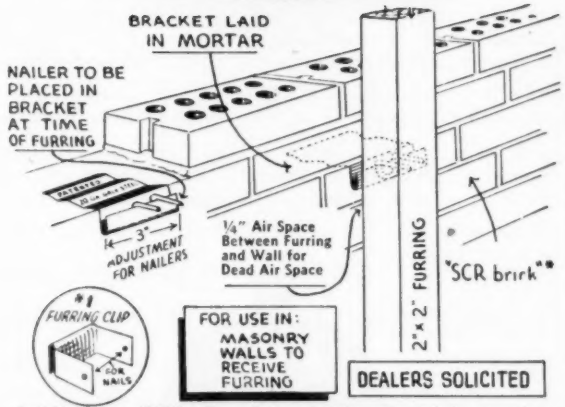

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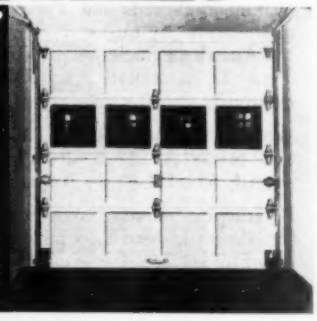

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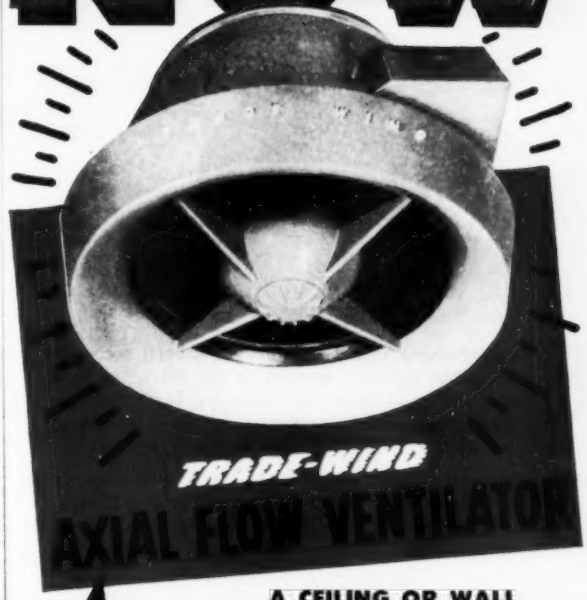

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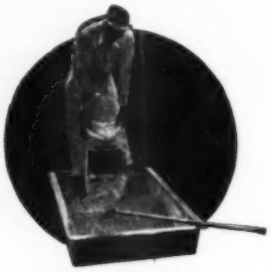

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Because Brixment requires no soaking or slaking, it is ready to mix and use the minute it is delivered. Neither men nor materials need be sent to the job in advance of actual work.

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Brixment mortar assures a strong, durable bond with the brick *because:*

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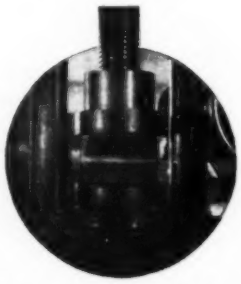
(2) It hardens slowly enough to permit deeper pentration and more thorough keying into the pores of the brick.

(3) Once formed, a bond between brick and Brixment mortar is permanent, because Brixment mortar does not undergo volume changes sufficient to weaken the bond.

Because of these characteristics, Brixment mortar makes *a better bond.*

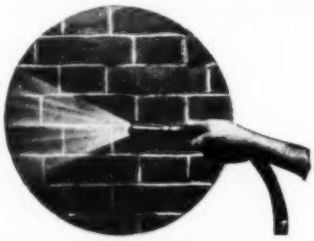


BRIXMENT IS STRONG . .

Brixment exceeds the Type I and Type II strength requirements for masonry cement of both the Federal and the American Society for Testing Materials specifications. Type II is usually specified when high strength is required.

When Brixment mortar is tested in compression between two brick, at 28 days or later periods, the brick frequently crack before the mortar fails.

Brixment is recommended for any kind of masonry — for foundations, load-bearing and parapet walls, for free-standing stacks—for every use where strength is required.



BRIXMENT HELPS PREVENT LEAKY WALLS . .

Brixment is waterproofed, during manufacture, with the most effective air-entraining water-repelling agent known. Even under pressure, water cannot readily pass through Brixment mortar. Therefore, if the face brick are back-

BETTER MASONRY

plastered with Brixment mortar, an effective barrier is set up against the further penetration of any water which may have worked its way through cracks or voids in the outside face of the wall.

BRIXMENT HELPS PREVENT EFFLORESCENCE

Efflorescence is caused by soluble salts which are present in almost all masonry materials. When reached by water, these salts dissolve and may be drawn, by evaporation, to the surface of the wall.

Brixment helps prevent efflorescence. The air-entraining water-repelling agent in Brixment prevents water from saturating the mortar and dissolving the small amount of salts that it may contain. Moreover, Brixment mortar prevents water from percolating down through the wall, dissolving salts which may be in the brick, and carrying them to the surface.

BRIXMENT IS PLASTIC . .

One of the most important characteristics any mortar can possess is *plasticity*. Within certain limits, plasticity is the greatest single factor not only in the *economy* of the brickwork, but also in its strength, its neatness, and its resistance to the passage of water.

One of the outstanding characteristics of Brixment mortar is its unusual plasticity. For over thirty years, bricklayers all over the United States have agreed that the workability of Brixment is comparable to that of straight lime putty. This exceptional plasticity makes it easy for the bricklayer to secure neat, economical brickwork, with the brick properly bedded, and the joints well filled.

And because of this unusual plasticity, a bag of Brixment will carry three full cubic feet of sand and still make an ideally workable mortar.

WATER-RETAINING CAPACITY . . . . . .

Brixment mortar has extremely high water-retaining capacity. It strongly resists the sucking action of the brick. Brixment mortar therefore stays smooth and plastic longer, when spread out on the wall. *This permits a more thorough bedding of the brick, and a more complete contact between the brick and mortar.* The result is a better bond, and hence a stronger and more *water-tight wall.*

BRIXMENT FOR STUCCO AND PLASTER . . . . . .

The same characteristics that make Brixment superior to portland cement and lime for masonry make it equally superior to these materials for stucco and plaster.

Brixment is more economical, more moisture-resistant, more plastic and more uniform in color than a combination of cement and lime. It has a slower, more convenient hardening time and since it is used in leaner mixes, hair-checking, crazing and shrinkage are reduced to a minimum. Write for recommended mixes.

Brixment stucco and plaster can be applied over any kind of masonry backing (brick, tile, block, concrete, etc.), or over expanded metal lath. The use of Brixment stucco and plaster over any other backing is not recommended.

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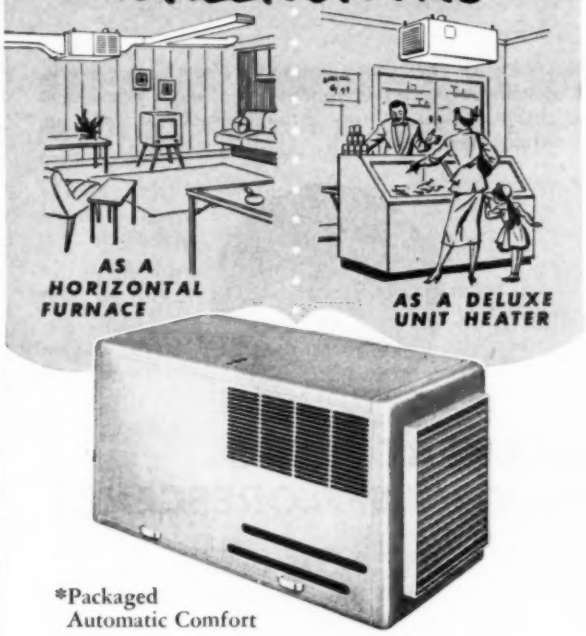

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ABSTRACT. An illustrated booklet presenting nailing techniques aimed at promoting correct nailing practices and sound construction. Text and illustrations were prepared by Otto C. Heyer and T. R. C. Wilson, Forest Products Laboratory engineers. Much of the test work upon which the manual is based was done by J. M. Gahagan of the Forest Products Laboratory staff, since retired. The importance of correct nailing in house construction is generally recognized, but there previously had existed no precise and authoritative booklet giving specifications for nailing. The nailing techniques illustrated in this booklet are based upon an accumulation of information obtained from a number of sources, engineering studies, testing, observation of nailing practices, and investigations conducted by the Forest Products Laboratory, in collaboration with the former Technical Office of the National Housing Agency (which was succeeded by the Housing and Home Finance Agency pursuant to Reorganization Plan No. 3, effective July 27, 1947).

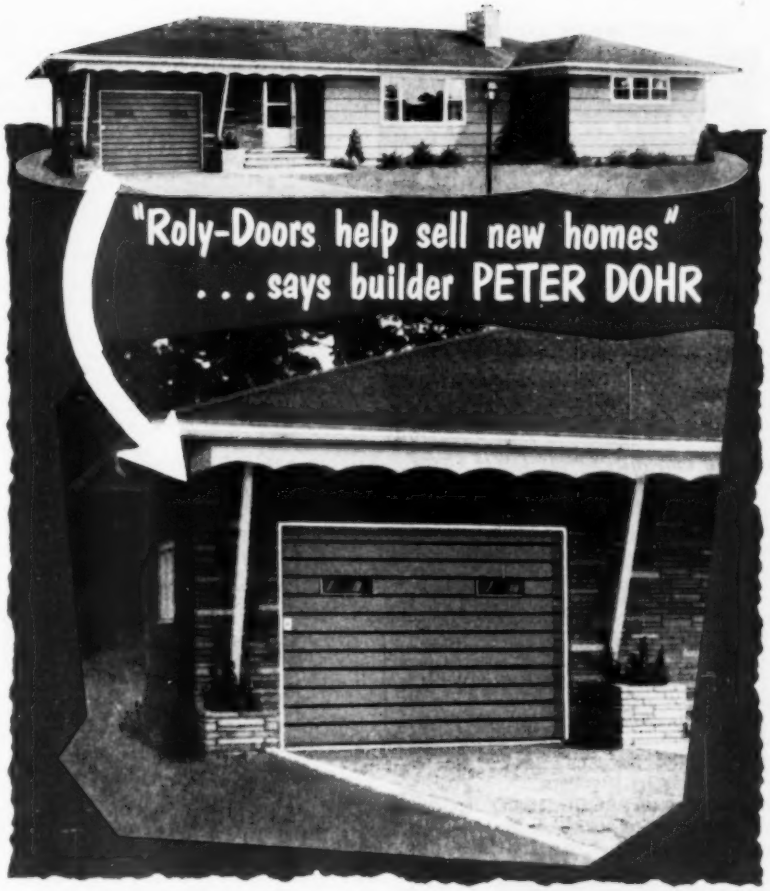
(p) Miscellaneous Building Materials

(711) SUITABILITY OF FIBER INSULATING LATH AS A PLASTER BASE by Lansing S. Wells and D. C. Smith; Building Materials and Structures Report BMS 3; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 23, 1938.—17 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Fiber insulating boards and lath; (b) Plywood; (c) Gypsum wall boards and gypsum lath; (d) Cement-asbestos board; (e) Compressed-fiber board; (f) Sand; (g) Gypsum plaster; (h) Calcined gypsum; and (i) Hydrated lime; 3. Properties of the Boards; (a) Density and strength; (b) Expansions and contractions; (c) Comparison of linear changes of painted with unpainted boards; 4. Experiments on Unplastered Boards When Attached to Studding; 5. Experiments on Plastered Fiber Insulating Lath; (a) Three-coat plastering; (b) Two-coat plastering; and 6. Summary and Conclusions.

ABSTRACT. The investigation pertains to the properties of wall and plaster boards and the suitability of fiber insulating boards as a plaster base. Such properties as density, strength (flexural and tensile), and linear changes accompanying changes in relative humidity and wetting and drying were studied. The boards were mounted on steel frames and the extent of buckling resulting from changes in relative humidity was determined. Methods of successful application of plaster on insulating lath were determined by experiments in which the thickness, sand content, strength, and time of set of the plasters were varied independently. This investigation was conducted under an allotment from the Works Progress Administration.

(712) PLASTIC CALKING MATERIALS by J. J. Tregoning, K. A. Milliken, A. Hockman, W. H. Sligh, and D. W. Kessler; Building Ma-



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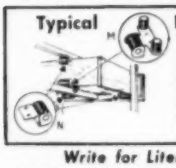

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erials and Structures Report BMS 33; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 20, 1940.—23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Samples; 3. Composition Studies; (a) Methods; (b) Analytical results; 4. Physical Determinations; (a) Current tests; (b) Proposed tests; (i) Shrinkage; (ii) Bond; (iii) Tenacity; (iv) Rate of hardening; (v) Oil rentention; (vi) Consistency; (vii) Density; (viii) Volatile loss; (c) Comparison of results of current and proposed tests; 5. Relation of Type of Building Material and Width of Joints to Performance; 6. Relation of Composition to Performance; (a) Vehicle; (i) Linseed oil; (ii) Soybean oil; (iii) Fish oil; (iv) Tung oil; (v) Miscellaneous; (b) Pigments; (c) Thinners; 7. Relation of Physical Properties to Performance; 8. Primers and Their Effectiveness; 9. Durability; (a) Exposure of strain-test specimens; (b) Exposure of rigid joints; (c) Inspection of buildings; and 10. Summary.

ABSTRACT. One phase of this study was concerned with the development of test procedures and the accumulation of data to form the basis of a specification. By inspection of several installations and numerous specimen joints after exposure to the weather for several years, it was decided that tests for shrinkage, rate of hardening, bond, tenacity, staining, and slumping tendency afford a good basis for predicting the performance. Since calking compounds are commercially used in contact with porous materials whose absorptive properties materially affect the performance, it is necessary to employ an accessory porous material in the tests. For this purpose a certain limestone has been selected because of its uniformity. The test procedures have been so devised that three specimens are prepared for each sample and on these eight properties are determined. A study of the composition of proprietary compounds has shown that a large variety of formulations are used. Oils most commonly used are fish, soybean, linseed, and tung. Cottonseed and rapeseed oils were employed in some mixtures whereas there were a few brands in which the vehicle consisted of rosin, tallow, or synthetic resin. In a considerable number of the proprietary compounds, the volatile content was too high for good performance. A study of compositions in relation to performance has indicated that pretreatment of the oil is of first importance, and that considerable care must be exercised in selecting fillers as well as keeping the volatile content very low. Certain factors which may affect the performance of plastic calking materials in service have been studied. Compounds that give good service in one type of masonry do not always give similar results on all other types. Often very porous masonry absorbs less of the vehicle than much denser materials do. Capillary forces of the pores seem to be of considerable importance. A compound may be satisfactory in wide joints but fail in narrow joints. Primers have been found to have some value in reducing shrinkage of mixtures of pronounced staining characteristics, but they may affect the bond adversely. Good mixtures do not require primers. The penetration of moisture through masonry walls is usually confined to joints which were improperly filled or to joints which opened subsequent to construction on account of structural movements. Joints which are particularly apt to open from structural movements are those between the masonry and the frames of doors or windows. Plastic calking materials have come into extensive use for filling certain joints in masonry as well as in some other types of construction. They are intended to remain sufficiently pliable to yield and maintain a seal in joints that vary in width to such an extent as to render the use of mortar or other rigid joint filler impracticable. Although the cost of the calking is relatively small, the failure to properly maintain a seal may result in costly repairs. Because considerable difficulty had been experienced in obtaining entirely satisfactory service from the plastic calking compounds, the above described study has been made, based on tests devised to determine the quality of such materials. It has been found that the performance of plastic calking materials is influenced, to a large extent, by the nature of porous materials with which the compounds are placed in contact. There is a marked variation in uniformity of all brands studied, which indicates that more rigid control is necessary in the manufacture of such products.

(713) STABILITY OF SHEATHING PAPERS AS DETERMINED BY ACCELERATED AGING by Samuel G. Weissberg, Daniel A. Jessup, and Charles G. Weber; Building Materials and Structures Report BMS 35; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 22, 1939.—7 pages; Out of print. See your librarian.

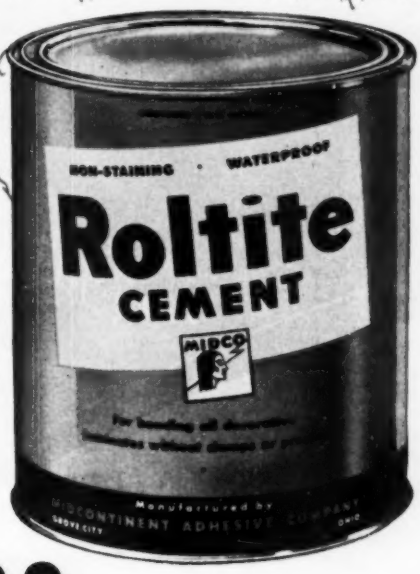
Includes a consideration of: 1. Introduction; 2. Description of Samples; (a) Laminated paper products; (b) Single-ply, asphalt-treated; (c) Metal-foil laminated products; (d) Rosin-sized paper; 3. Determination of Stability by Accelerated Aging; (a) Permeability to air, water, and water vapor; (b) Strength; (c) Shrinkage; and 4. Summary and Conclusions.

ABSTRACT. The more familiar types of sheathing papers were tested to obtain authoritative information on how well they can be expected to retain their desirable qualities in service. Accelerated aging was used, because to obtain comparable data from natural aging would require much more time. The aging treatment included cycles of wetting, freezing, drying, and baking; and the effects of the treatment were observed by the comparison of the properties before and after aging. Important properties of this class of papers are resistance to the passage of air, water, and water vapor; hence, the judgment of stability was based largely on the degree of retention of those attributes. In general, the papers lined with metal foils were least affected by aging. The asphalt-treated papers differed widely. The single-ply papers as a class had lower initial resistance to water and moisture vapor than the laminated papers but retained the resistance somewhat better than the latter, although one of the duplex papers received a very high rating. Rosin-sized papers had unsatisfactory aging properties.

(714) STRENGTH, ABSORPTION, AND RESISTANCE TO LABORATORY FREEZING AND THAWING OF BUILDING BRICKS PRODUCED IN THE UNITED STATES by John W. McBurney and Joseph C. Richmond; Building Materials and Structures Report BMS 60; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 5, 1940.—56 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sampling and Distribution of Sources; 3. Methods of Testing; 4. Presentation of Data, by Producing Districts; (a) Table 1. Maine, New Hampshire, and Vermont; (b) Table 2. Massachusetts; (c) Table 3. Connecticut; (d) Table 4. Hudson Valley (New York City); (e) Table 5. New York State (except Hudson Valley); (f) Table 6. New Jersey; (g) Table 7. Delaware and Maryland; (h) Table 8. Philadelphia; (i) Table 9. Eastern Pennsylvania (except Philadelphia); (j) Table 10. West Virginia and Western Pennsylvania; (k) Table 11. Ohio; (l) Table 12. Detroit. (m) Table 13. Wisconsin; (n) Table 14. Chicago; (o) Table 15. Indiana, Illinois (except Chicago), and Missouri; (p) Table 16. Nebraska, Iowa, Kansas, and Minnesota; (q) Table 17. Utah and Wyoming; (r) Table 18. Colorado; (s) Table 19. Washington, Oregon, and California; (t) Table 20. Texas; (u) Table 21. Arkansas, Louisiana, Mississippi, and Alabama; (v) Table 22. Tennessee; (w) Table 23. Kentucky; (x) Table 24. North Carolina; (y) Table 25. Virginia and the District of Columbia; and 5. Selected References.

ABSTRACT. This paper reports the compressive and transverse strengths, water absorptions, saturation coefficients, and either the number of cycles of freezing and thawing required to produce failure or the loss in weight after 51 cycles for each of 3,368 bricks representing 525



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(715) INVESTIGATION OF FAILURES OF WHITE-COAT PLASTER by Lansing S. Wells, Walter F. Clarke, Edward S. Newman, and Dana L. Bishop; Building Materials and Structures Report BMS 121; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C. Issued February 1, 1951.—42 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Plaster and Plastering; 3. Description of Failures; 4. Discussion of the Formation and Subsequent History of White-Coat Plaster; 5. Investigation of White-Coat Samples Taken after Failure; 6. Investigation of Some Base Coats; 7. Possible Causes of Failure of White-Coat Plaster other than Hydration of Magnesia; 8. Preventing Failures of White-Coat Plaster in New Buildings; 9. Methods of Repairing Damaged Plaster; 10. Summary and Conclusions; and 11. References.

ABSTRACT. An investigation was made of a particular kind of plaster failure that is characterized by the formation of blisters or bulges in the finish coat of plaster. Extensive surveys revealed that the failures are widespread; that several years elapse before the bulges appear and thereafter the number and extent of failures increase as the age of the buildings increases; that the failures occur more extensively and rapidly during warm humid weather; and that there is a marked similarity in the failures regardless of the kind of plaster base coats, type of construction base, varying job conditions, and type of workmanship. The usual white coat is prepared from a lime putty gaged with plaster of paris (gypsum gaging plaster). Chemical analysis of 88 samples of white-coat plaster that had failed showed that in every instance a dolomitic lime had been used in preparing the white coat. Regularly hydrated dolomitic limes contain about 32 percent of total MgO (by weight), of which only about 5 percent is hydrated and the remaining 27 percent is still present as unhydrated MgO. This highly incomplete hydration is due to the fact that the magnesia has been badly overburned in the production of dolomitic quicklimes (which contain CaO and MgO in nearly equal molecular proportions) and thus is inactive toward hydration in the usual hydrators. Furthermore, only about 20 percent of the hydration of the magnesia is completed at the end of the customary 1-day soaking period. The amounts of $CaSO_4.2H_2O$, $CaCO_3$, $CaOH_2$, $Mg(OH)_2$, and MgO in the hardened plasters were calculated from the chemical analysis and closely checked by the method of heat of solution. The presence of $CaSO_4.2H_2O$, $Mg(OH)_2$, $Ca(OH)_2$, and $CaCO_3$ were conformed by thermal analysis. The average amount of hydration of the MgO for 88 samples of failed white coat was 59.0 percent—much in excess of the 20 percent attained after the customary 1 day of soaking the lime as a putty. Hydration of magnesia must, therefore, occur on the wall. The hydration of MgO is attended by marked expansion. Failures were also observed in base coats where dolomitic lime containing considerable unhydrated MgO was used in their preparation. It was shown that suggested causes other than hydration of MgO with its attendant expansion cannot account for the bulges that occur in plaster several years after a building has been erected. The precautions that should be exercised in specifying a proper lime in order to prevent future failures are discussed. The cost to the Nation of continual repairs of plastered surfaces is difficult to appraise, but it runs into millions of dollars annually. Following the conclusion, set forth in this report, that delayed hydration and expansion of the magnesia in the hydrated dolomitic lime used is responsible for the blister type of failure, the National Bureau of Standards has cooperated in developing methods for the preparation of white-coat plaster that is not subject to these changes, and these methods have been introduced into actual production.

(716) PHYSICAL PROPERTIES OF SOME SAMPLES OF ASBESTOS-CEMENT SIDING by Cyrus C. Fishburn; Building Materials and Structures Report BMS 122; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 6, 1951.—15 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Siding Samples; 3. Tests of the Siding Samples and Discussion of Test Results; 4. Tests Made by the British Building Research Board; and 5. Conclusions.

ABSTRACT. Measurements were made of the water absorption, weight, porosity, dimensional stability, flexural strength, and flexibility of 23 samples of American asbestos-cement siding furnished by eight manufacturers. A report of an investigation on the weathering of British asbestos-cement roofing products was studied and is briefly reported in this paper. The modulus of elasticity of the siding samples increased with decrease in absorption. The British investigation indicated that samples of roofing products having a high resistance to freezing and thawing also had low absorption and high modulus of elasticity. Slight decrease in length and in moisture movement were noted with repeated cycles of wetting and drying.

(717) EFFECT OF AGING ON THE SOUNDNESS OF REGULARLY HYDRATED DOLOMITIC LIME PUTTIES by Lansing S. Wells, Walter F. Clarke, and Ernest M. Levin; Building Materials and Structures Report BMS 127; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 25, 1952.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Materials; a. Hydrated Lime; b. Cement; 4. Procedure and Apparatus; a. Preparation and Storage of Putty; b. Determination of Free Water in the Putty; c. Determination of Ignition Loss of the Dried Putty; and d. Preparation and Testing of Autoclave Bars; 5. Calculations; 6. Results and Discussion; 7. Summary and Conclusions; and 8. References.

ABSTRACT. Regularly hydrated dolomitic limes are potentially unsound because they contain unhydrated magnesia that may hydrate subsequently in the set plaster, causing disruptive expansion. It is important to know the time required to soak these limes as putties so that sufficient magnesia will have been hydrated to give a sound putty. The customary soaking period of 1 day is inadequate, as evidenced by the prevalence of white-coat expansion failures. Consequently, the progressive hydration of magnesia in dolomitic lime putties upon aging and the attendant decrease in autoclave expansion of cement-lime putty bars were studied for 18 regularly hydrated dolomitic limes representative of commercial production. The limes differed markedly in regard both to the time required to reach a given percentage of expansion and to the extent of hydration at the given expansion. The shortest time of aging required to reduce the expansion to 1 percent (a suggested specification limit for soundness) was 3 weeks, whereas the longest time was in excess of 32 weeks. When the expansion had been reduced to 1 percent, the proportion of total magnesia hydrated ranged from 83 to more than 97 percent. Inasmuch as long and variable aging periods are impractical, suitable alternates, including the use of newly developed sound hydrated limes, are discussed. The Bureau of Standards cooperated in developing methods for producing dolomitic limes so highly hydrated that expansion by further hydration would be negligible. It did so because regularly hydrated (type N-normal finishing) dolomitic lime caused extensive blister-type failures in white-coat plaster.

(718) ATMOSPHERIC EXPOSURE TESTS OF NAILED SHEET-METAL BUILDING MATERIALS by Theodore H. Orem; Building Materials and Structures Report BMS 128; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 28, 1952.—24 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials (aluminum; aluminum alloy; aluminum-coated steel; galvanized steel; and zinc alloy); 3. Description; 4. Results and Discussion; and 5. Conclusions.

ABSTRACT. Tests of nailed metallic building sheets of aluminum, aluminum alloy, aluminum-coated steel, galvanized steel, and zinc alloy exposed for a period of 2 years to the atmospheres of Washington, D. C., and Hampton Roads, Va., are described. The tests indicate that improper installation practices can cause accelerated corrosion of such materials, but which, when properly installed, may be expected to give long, satisfactory service. Important conclusions and recommendations are given regarding the installation of sheet-metal building materials. While it is not yet possible to establish the relative resistance to corrosion of the different materials because of the short duration of the tests, the deleterious corrosion of some of the materials that has already taken place because of improper installation warrants reporting on this phase of the project at this time. The information may indicate how to avoid undue maintenance costs resulting from improper installation.

(719) SOME PROPERTIES OF PAPER-OVERLAID VENEER AND PLYWOOD—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis and compilation of the results here reported: Alexander W. Ely, C. O. Erickson, and Robert J. Seidl (engineers), Frank J. Spinar (chemist), Donald J. Fahey (technologist), and F. A. Strenge (technical writer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luxford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director; published by the Housing and Home Finance Agency, Technical Staff, Washington, D. C., as its "Technical Paper No. 9," in May 1948.—26 pages.

Includes a consideration of: 1. Introduction; 2. Preparation of Overlay Materials; 3. Strength and stiffness tests; (a) Test specimens; (b) Testing procedures; (i) Tension test of paper overlay; (ii) Transverse bending tests of overlaid veneer; (c) Results of tests; (i) Tensile strength of overlays; (ii) Bending properties of overlaid veneer; 4. Abrasion Tests; (a) Test Specimens; (b) Testing Procedures; (c) Results of Tests; 5. Vapor Transmission Tests; (a) Test Specimens; (b) Testing Procedure; (c) Results of Tests; 6. Dimensional Stability Tests of Overlaid Veneers; (a) Test specimens and procedures; (b) Results of tests; 7. Dimensional Stability Test of Overlaid Plywood and Sandwich Constructions; (a) Preparation of test panels; (b) Testing procedure; and (c) Results of Tests.

ABSTRACT. This report covers the effect of phenolic resin on paper overlays for veneer and plywood, including test data on strength and stiffness, abrasion resistance, water vapor transmission, and dimensional stability. (Paper overlays impregnated with phenolic resin are coming into use to mask defects in ve-

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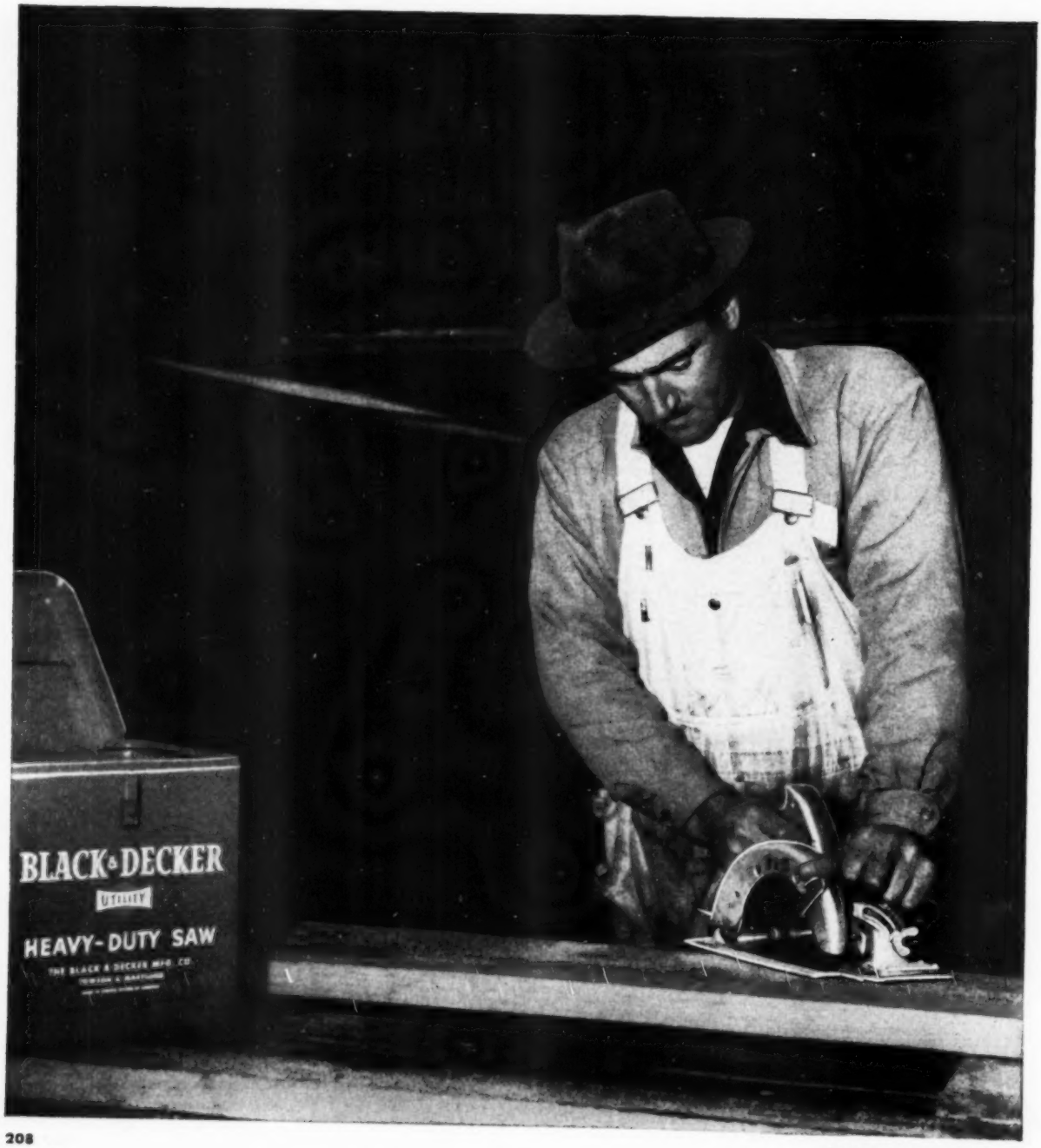

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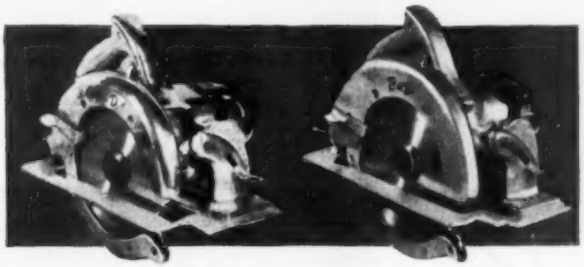

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neer and plywood. They were found by test to improve certain characteristics of the veneer.)

(720) PROPERTIES OF FOUR EXPERIMENTAL FLUSH-TYPE DOORS (Including a Tentative Test Procedure)—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis, and compilation of the results here reported: W. E. Bonser, G. E. Heck, O. C. Heyer, Paul J. Hunt, L. W. Wood, and W. G. Youngquist (engineers), and F. A. Strenge (technical writer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luxford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director; published by Housing and Home Finance Agency, Technical Staff, Washington, D. C., August 1948, as its "Technical Paper No. 10."—8 pages; price: not stated. Order copies from the Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Test Doors; 3. Methods of Test; (a) Racking parallel to plane of door; (b) Racking perpendicular to plane of door; (c) Impact by falling ball; (d) Differential moisture exposure; (e) Cyclic moisture exposure; (f) Immersion tests; 4. Results of Tests; (a) Racking; (b) Impact; (c) Differential moisture exposure; (d) Cyclic moisture exposure; and (e) Immersion test.

ABSTRACT. A report covering experimental work, including a test procedure on flush-type doors, including racking, perpendicular and parallel to the plane of the door, falling ball impact, exposure to cycles of low and high relative humidity, a warping test, and a water immersion test. Flush-type door constructions are compared with the conventional five-panel door.

(721) STRUCTURAL PROPERTIES OF LIGHT-GAGE TUBULAR COLUMNS by William A. Russell, Structural Engineer, Housing and Home Finance Agency. The investigations on which this report is based were performed in the laboratories of the National Bureau of Standards, U. S. Department of Commerce, by David Watstein and C. T. Valenti, Jr., structural engineers, under the general direction of Douglas E. Parsons, Director of Building Technology at the Bureau; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in October 1953, as its "Housing Research Paper No. 21."—39 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Specimens; 3. Auxiliary Test Specimens; 4. Description of Material; 5. Preparation of Specimens; 6. Loading Fixtures; 7. Test Methods; 8. Test Results; 9. Other Observations; 10. Comparison of Observed and Computed Maximum Loads; 11. Comparison of Observed Maximum and Allowable Loads; 12. Test Results of Auxiliary Specimens; 13. Analysis of Test Results; 14. New Formula for Concrete-Filled Pipe Columns; 15. Column Chart; 16. The Lally Formula; 17. Conclusions; and 18. Column Test Charts (17 pages).

ABSTRACT. This paper presents factual data on the behavior and safe load-carrying capacity of small, light-gage tubular steel columns, both hollow and concrete filled, suitable for the light loads encountered in dwelling construction. Such columns behave no differently than similar heavy-gage pipe columns and accordingly, safe load capacity may be computed by means of the same formulae used for heavy-gage tubular columns. Discrepancies between existing formulas for concrete-filled pipe columns are discussed and a suggested formula is presented in chart form which permits rapid computation of safe load values.

(722) INFLUENCE OF THE WASH FROM BRONZE ON THE WEATHERING OF MARBLE by Daniel W. Kessler and Ross E. Anderson; Building Materials and Structures Report BMS 137; published by the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C.—Issued 1953.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Outline of Program; 3. Description of Materials; 4. Tests on Fresh Marble; 5. Description of Exposure Tests; 6. Results of Exposure Tests; 7. Observations on Various Marbles Exposed to Bronze; 8. Discussion of Results; (a) Exposure tests; (i) Untreated specimens; (ii) Paraffin-treated specimens; (iii) Warping of marble; (b) Observations on structures; (c) Effect of infiltrating matter; 9. Summary; and 10. References.

ABSTRACT. This investigation was made to determine whether rain water flowing over bronze work and then over marble in monuments or other structures causes deterioration of the marble. Experimental work included exposure tests, extending over a period of 13½ years, in which many specimens of a white calcite marble were exposed to the wash from three bronzes of typical compositions. Tests for flexural strength, abrasive resistance, absorption, and bulk density were made on some of the specimens after exposure periods of 5, 10, and 13½ years to determine the changes in test values. Several buildings and monuments were inspected where various marbles had been exposed to the wash from bronze for periods ranging from 20 to 98 years. It was found that some marbles are not appreciably injured by such conditions, whereas others showed advanced stages of disintegration within a period of 30 years. Some marbles develop both green and brown discolorations, and disintegration usually occurs in the brown areas. The green staining matter does not appear to have any appreciable effect on the durability of marble. Treatment of the marble with molten paraffin to seal the pores does not prevent discoloration except for a period of 2 or 3 years. Tests indicated that this treatment materially reduces the flexural strength and abrasive resistance of marble.

(q) Quantities of Building Materials Consumed

(751) THE MATERIALS USE SURVEY: A STUDY OF THE NATIONAL AND REGIONAL CHARACTERISTICS OF ONE-FAMILY DWELLINGS BUILT IN THE UNITED STATES IN THE FIRST HALF OF 1950 (revised edition) by E. Everett Ashley, 3d, Philip A. Randall, George R. Kinzie, and Robert Strelitz. Max Lipowitz, Staff Technician; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1953.—26 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. A Discussion of the Material; (a) Reason for a Survey; (b) Regional patterns; (c) Comparison between 1940 and 1950 houses; (d) Reliability of 1950 data; (e) Tabular arrangement; (f) Questionnaire; (g) Care in the use of the data; 2. Regional Characteristics; (a) Map showing regional division of U. S. for HHFA Materials Use Survey; (b) General characteristics of single-family detached houses built during the first half of 1950 in the five regions (Table 1); (c) Structural characteristics, by regions (Table 2); (d) Plumbing, heating and wiring characteristics, by regions (Table 3); (e) Water, sewage, and drainage characteristics, by regions (Table 4); (f) Special equipment characteristics, by regions (Table 5); 3. Materials Quantities Used in the Production of 1,000 Single-Family Detached Houses Built in the First Half of 1950 (Table); 4. Appendix A: Statistical Technique Used in the Survey; (a) Nature of survey; (b) Expanded coverage; (c) Sample design; (d) Weighting; (e) Adjustments for structural differences; (f) Regional data; 5. Appendix B: Form Used in the Survey.

ABSTRACT. This is a monograph presenting, in detail, information on structural characteristics and material used in single-family detached dwellings put under construction during the first half of 1950. This report has been prepared to assemble all of the usable data on material consumption patterns. The information, which is shown on both a national and regional basis, should be of great value to manufacturers and distributors of building materials as well as to home builders. It was prepared jointly by the Housing Economics and Housing Technology Branches of HHFA's Division of Housing Research, with the cooperation of the Washington staff of the F.H.A. It replaces a preliminary, 47-page version, by the same title, published in November 1952.

(752) "TRAILER COACH INDUSTRY SURVEY FOR THE YEAR 1950" by Philip A. Randall and Robert L. Strelitz; in *Housing Research*, Spring 1952, pages 15-27; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Development of the Survey; 2. Size of the Survey Sample; 3. Estimated Industry-Wide Aspects of Trailer Coach Production—1950; 4. Results of Trailer Coach Industry Survey; (a) Period of business operation; (b) Production data; (c) Estimates of production capacity; (d) Plant facilities; (e) Major factors limiting production capacity (54 respondents); (f) Manpower requirements; (g) Distribution; (h) Manufacturers' 1950 sales by dealer-take volume; (i) Methods of transporting; (j) Marketing; 5. Average Materials Use; (a) Method of development of the average use of materials per 1,000 trailers; (b) Tables.

ABSTRACT. The trailer coach industry survey described here is the first of its kind attempted on a comprehensive basis to permit computation of all materials used in house trailers manufactured during a certain period. The results are available to calculate future trailer coach materials requirements and the effects of any recommendations for conservation of critical materials and possible substitutions in materials use.

(753) HOUSING AND THE EMERGENCY: AN ANALYSIS OF HOUSING MATERIALS REQUIREMENTS (PART I. STEEL, IRON, COPPER, ALUMINUM AND CEMENT) by Leonard G. Haeger; published by the National Association of Home Builders, July 1951.—30 pages; price: Not stated. Order copies from National Association of Home Builders, 1028 Connecticut Avenue, N. W., Washington, D. C.

Includes a consideration of: 1. The National Emergency; 2. Housing in the Defense Mobilization; 3. Housing Need in the Defense Economy; 4. Basic Material Requirements and Production in the Defense Emergency; 5. Basic Material Requirements for Housing; 6. Material Requirements for all Construction; 7. Detailed

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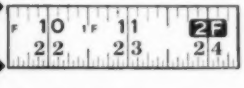

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ABSTRACT. This study was made for the home building industry to fill a long felt need for factual information concerning the consumption of selected building materials by the industry. It is intended to serve as a guide to the use of these critical materials in the production of new housing. In the preparation of the work the author was aided by consultation with the *National Association of Home Builders–Producers' Council Committee on Production and Distribution of Building Materials.* The Co-Chairmen of this Joint Committee were Rodney M. Lockwood of NAHB, and William Gillett of the Producers' Council. Assistance in the preparation of the study was also given by the Division of Construction Statistics of the Bureau of Labor Statistics, by the Building Materials Division of the National Production Authority, and by the Division of Housing Research of the Housing and Home Finance Agency.

(r) Self-Help Housing Construction

(761) "BUILDING SELF-HELP HOMES" by William A. Russell; in *Housing Research*, Fall 1951, pages 27-34; published by the Housing and Home Financing Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Simplified Building Techniques; 2. Self-Help Methods Cut Costs; 3. Fire-Resistance—An Added Benefit; 4. Tuskegee Develops Materials and Techniques; and 5. HHFA Guide for Self-Help Builders.

ABSTRACT. Tuskegee self-help houses offer a solution for many low-income families who cannot muster enough cash to acquire an adequate home. An HHFA research project at Tuskegee is aimed at developing self-help building methods and making them available to families and groups of families throughout the Nation. In addition to helping many Americans acquire better housing, Tuskegee's self-help methods may be useful also in rehabilitating housing in war-torn areas. Dr. F. D. Patterson, President of Tuskegee University, was project director.

PART V

MANAGEMENT of the HOME BUILDING BUSINESS

(a) Analysis of the Industry

(801) "THE CONSTRUCTION INDUSTRY"—Chapter 6 (pages 146–163) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, N. Y.; 1949.—533 pages; price: $6.50

This chapter considers: 1. General Nature of the Industry; 2. Productivity; 3. Importance in the National Economy; 4. Cyclical Movements; 5. Amplitude and Length of Cycles; 6. Cyclical Sequence of Events; 7. Cyclical Factors; 8. Cyclical History—1918 to 1946.

(802) "THE BUSINESS OF HOUSEBUILDING"—Chapter 3 (pages 59–94) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. HOUSEBUILDING AS AN INDUSTRIAL ACTIVITY; a. The Processes of Housebuilding; b. Housebuilding and Construction; c. A Problem of Segregation; 2. SIZE AND CHARACTERISTICS OF THE HOUSEBUILDING INDUSTRY; a. Production in Terms of Labor and Materials; b. Characteristics of House Builders; 3. SEASONAL NATURE OF HOUSEBUILDING; a. Reasons for Seasonal Variation; b. Smoothing the Seasonal Curve; 4. CAPACITY OF THE HOUSING INDUSTRY; a. Physical Capacity; b. Efficiency of Operation; c. Limit of Profitable Operation; 5. SUMMARY.

(803) "THE MANAGEMENT OF THE HOUSEBUILDING INDUSTRY"—Chapter 4 (pages 95–130) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. INITIATION AND GENERAL MANAGEMENT; a. The Buyer; b. The Land Developer and Subdivider; c. The Architect; d. The Builder; e. The Subcontracting System; 2. MANAGEMENT AND TRADE RESTRAINT; a. Purpose of Trade Restraints; b. Effects of Trade Restraints and Combinations; 3. LABOR'S RELATIONS TO MANAGEMENT; a. Combating Insecurity; b. Working Rules; 4. THE ROLE OF MANUFACTURERS AND DISTRIBUTORS; a. The Rigidity of Prices; b. The Background of Price Rigidity; c. Role of the Materials Distributor; 5. THE ROLE OF THE FINANCIER; a. Credit Arrangements; b. Dominance of Financial Institutions; 6. THE IMPACT OF GOVERNMENT ON HOUSEBUILDING; a. Government as a Stimulator; b. Government as Regulator; 7. SUMMARY.

(804) "CHANGES IN HOUSEBUILDING ORGANIZATIONS—Section 3 of Chapter 5: Industrial Trends in Housebuilding, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

This section considers: a. The Operative Builder; b. The Investor's Building Agent; c. The Dealer-Builder; and d. The Factory Prefabricator.

(805) "THE NATURE OF THE HOME BUILDING INDUSTRY"—Chapter 7 (pages 23-25) of HOUSING . . . USA! published by The National Association of Home Builders, Washington, D. C. Not dated, but published in September 1952.—36 pages; price: 10¢. Free to members of NAHB.

(806) "HOME BUILDING"—Chapter 2 (pages 220-258) in Section Five: Land Development and Home Building, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter traces the step-by-step operations of a home builder as follows: 1. Selecting a Livable Neighborhood; 2. Selecting the Home Site; 3. Designing the Home; 4. Heating the Home; 5. Storm Windows; and 6. Solar Orientation.

(807) "THE BACKWARDNESS OF THE HOUSEBUILDING INDUSTRY" (Conclusions concerning)—Section 1(b) of Chapter 12: Conclusions and Recommendations of the Housing Committee, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

(808) HOUSEBUILDING IN TRANSITION by Sherman J. Maisel; published by University of California Press, 1953.—390 pages; price: $5.00. Order copies from University of California Press, Berkeley, California, or Los Angeles, California.

Includes a consideration of: 1. Introduction; 2. The Housebuilding Industry; 3. The Small Builder; 4. The Medium Firm; 5. The Large Firm; 6. Supply of Factors; 7. Evaluating the Efficiency and Performance of Housebuilding; 8. How Efficiency Grows With Size; 9. Effects of External Restrictions; 10. Performance of Housebuilders; and 11. The Future. NOTE: In addition to 62 Tables and 11

Figures, the work has 10 Appendices, as follows: A. General Method of Procedure and Reliability of Estimates; B. Housebuilding Production; C. Size and Type of Housebuilding Firms; D. Housebuilders' Operations; E. Information on Firms' Age, Characteristics, Ownership, and Financial Operations; F. The Product; G. Structure of the Trade-Contracting Industries; H. Pricing of the Composite House; I. Materials Supply; J. Data on the Labor Force, Entry, and Profits.
ABSTRACT. This book is a publication of the Bureau of Business and Economic Research, University of California.

(b) Management Problems

(821) "OFFICE RECORDS AND INSTALLMENT PAYMENT POLICIES" (in Subdividing)—Chapter 30 (pages 291-299) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: $5.75.

This chapter considers: 1. Introduction; 2. Original Files and Tract Information; 3. Engineering Work; 4. Street Improvement; 5. Utilities; 6. Record Map; 7. Title Papers; 8. Original Sales Records; and 9. Procedure for Operating the System.
This chapter was written by Frank D. Baillet.

(822) "LICENSE LAWS GOVERNING BROKERS AND SALESMEN"—Chapter 1 (pages 391—417) in Section Nine: Brokers' License Laws and Code of Ethics, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y. 1948.—784 pages; price: $10.00.

This chapter considers: 1. History; 2. Objectives; 3. Codes of Ethics; 4. Real Estate Frauds; 5. Constitutionality; 6. Mandatory Qualifications for Licensing; 7. Bonded Brokers; 8. How to Obtain a License; 9. Preparation for Examination; and 10. Charts. (The charts, indicating license law requirements in the various states, as of January 1946, were prepared by Mr. Robert W. Semenow, Secretary-Treasurer of the National Association of License Law Officials.)

(823) PUBLIC RELATIONS FOR HOME BUILDERS; published by The National Association of Home Builders, Washington, D. C. Not dated.—12 pages, multilithed; price: not stated.

Pamphlet containing illustrations from a film produced by NAHB. Contains several interesting merchandising suggestions.

(824) "TAXES AND ASSESSMENTS"—Chapter XXIV (pages 451-469), of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00.

Includes a consideration of: 1. Local and Federal Government; 2. Taxes and Business in General; 3. Principles of Taxation; 4. Taxes and Real Estate; 5. Taxes and the Sale of Real Estate; 6. Taxes and New Construction; 7. One Extreme Example; 8. Taxes and the Homeowner; 9. Taxes and Investment Property; 10. Failure to Modernize Tax Systems; 11. Tax Delinquencies; 12. The Tax Load; 13. The Assessed Valuation; 14. The Local Basis of Assessed Valuation; 15. Tax Limitations; 16. Tax Exemptions; 17. Assessments for Improvements; and 18. Taxes in General and Property Values.

(825) RECORD KEEPING FOR THE SMALL HOME BUILDER by R. L. Brummet and D. A. Thomas; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., January 1952.—85 pages; price: $1.25. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Problems of the Small Home Builder; (a) The need for complete and accurate accounting; (b) Estimating, recording, and controlling costs; (c) Financing; (d) Controlling material use; (e) Reporting; (f) Other problems; 2. Framework of the System; 3. Estimating; (a) Cash requirements and financing operations; (b) Goals or yardsticks for the measurements of operating efficiency; (c) Determining bid or selling price; (d) The estimating process; (e) Illustration of the estimating process; (f) Cost estimate check lists; 4. Classifying and Recording; 5. The Job Record; 6. Record Keeping for Materials; (a) Use of stock records; (b) Use of materials requisitions; (c) The physical inventory; (d) Materials returned to stock; (e) Materials transfers; 7. Payroll procedure; (a) Timekeeping; (b) Preparing the payroll; (c) Paying the employees; (d) Recording the payroll; (e) Keeping of payroll data; 8. Reports; (a) General operational reports; (i) Job progress report; (ii) Statement of resources received and used; (b) Financial statements; (i) Income statement; (ii) Statement of financial condition; (c) Report to Governmental units; (i) Requirements of Federal governing units; (ii) Upon hiring new employees; (iii) From each payment of wages to an employee; (iv) By the 15th day of each month; (v) On or before each April 30, July 31, October 31, and January 31; (vi) When an employee's withholding exemption changes; (vii) On or before each January 31 and at the termination of employment; (viii) On or before January 31 of each year; (ix) On or before February 15; (x) Requirements of State governing units; (xi) Requirements of city governing units; (xii) Builders' social security and income taxes; 9. Supplementary considerations; (a) Record keeping for fixed assets; (b) Record keeping for lots on hand and development of tracts of land; (c) Record keeping for receivables and payables; (d) Record keeping for cash on hand; (e) Reconciliation of the cash balance; (f) Income tax requirements; 10. Appendix A: The Use of Conventional Journals and Ledgers and a List of Suggested Account Titles; 11. Appendix B: Publications Dealing With the Setting of Standards of Efficiency and the Problems of Estimating Building Costs; 12. Appendix C: Description of Recommended Forms and Some Suggestions for Determining Quantities Needed.

ABSTRACT. A manual which provides a simple but complete bookkeeping system for the small home builder. The record-keeping system shown in this manual, explained in layman's language, is simple enough for the small home builder or a member of his family to follow in setting up and keeping a set of books. The chapters cover: estimating process covering planning and financing operations; measuring efficiency, figuring bids and selling prices; classifying and recording business transactions; keeping track of materials; payroll procedure; reports, and financial statements. It is illustrated with forms, showing quantities and costs of materials and labor, and other items, as they occur in everyday building operations. *Included also is a price list and order blank for purchase of the recommended forms.* An appendix describes the use of conventional journals and ledgers, and lists recommended forms and publications regarding efficiency standards and estimating problems. This manual was prepared within the University of Michigan's School of Business Administration, under the supervision of H. F. Taggart, Assistant Dean, as a research project sponsored by the Housing and Home Finance Agency's Division of Housing Research. HHFA staff technicians for the project were E. Everett Ashley, 3d, and Max Lipowitz. Robert W. King, HHFA accounting officer, reviewed the text and forms. Throughout the manual, copies of completed forms are folded in, at the proper points, to illustrate the text.

(826) FIELD INSPECTORS' CHECK LIST FOR BUILDING CONSTRUCTION—Report of Subcommittee on Structure, Central Housing Committee on Research, Design, and Construction (Vincent B. Phelan, Chairman); Building Materials and Structures Report BMS 81; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 8, 1942.—68 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Preliminary Stage; (a) Preparatory steps; (b) Schedule of progress; (c) Examination of site; (d) Layout; (e) Storage of materials and equipment; (f) Inspection of work; (g) File records; (h) Sample constructions and advance tests; 3. Foundation State; (a) Soil load tests, specified or additional; (b) Site preparation; (c) Earthwork; (d) Utilities; (e) Footings, foundation walls, piers; (f) Backfilling; 4. Structural-framing Stage; (a) General preparations; (b) Superstructure framing; (c) Utilities; (d) Concluding check up of Stage 4; 5. Intermediate Stage; (a) General requirements; (b) Thermal insulation; (c) Sheet-metal work; (d) Weatherproofing; (e) Roofing; (f) Plumbing; (g) Heating; (h) Air conditioning; (i) Electrical work; (j) Miscellaneous metal work; (k) Metal windows; (l) Lathing; (m) Plaster and stucco; (n) Sash and doors; (o) Weatherstripping; (p) Glazing; (q) Millwork; (r) Finish flooring; (s) Screening; 6. Finishing Stage; (a) Hardware; (b) Painting and decorating; (c) Lighting fixtures; (d) Masonry; (e) Concluding check up of Stage 6; 7. Final Records; (a) Guaranties; (b) Reports of final inspections; (c) Instructions; (d) Recommendations of contractor or manufacturer; (e) Settlement; (f) Changes; (g) File copies; (h) Waivers of lien; (i) Contractors' affidavits; (j) Utility approvals; (k) Occupancy certificate; 8. Appendix A: Concrete; (a) Records for concrete work, daily or periodic; (b) Forms for concrete; (c) Reinforcement; (d) Materials; (e) Mixing at job; (f) Ready-mixed concrete (centrally mixed, truck-mixed, "shrink-mixed"); (g) Mixing efficiency; (h) Discharging operation; (i) Placing of concrete; (j) Vibrating of concrete, internal; (k) Construction joints; (l) Surface of concrete in place; (m) Cold-weather construction; (n) Hot-weather construction; (o) Finishing of surfaces made without forms; (p) Curing; (q) Removal of forms; (r) Correction of defects; 9. Appendix B: Masonry; (a) Records for masonry work, daily or periodic; (b) Construction; (c) Finished surfaces; (d) Chimneys; 10. Appendix C: Waterproofing, dampproofing, and calking; (a) Materials for waterproofing, dampproofing, and calking; (b) Workmanship; 11. Appendix D: Structural Steel; (a) Materials for structural steel work; (b) Fabrication and erection; (c) Prefabricated units; 12. Appendix E: Carpentry; (a) Materials for framing; (b) Lumber; (c) Framing; (d) Sheathing; (e) Siding.

ABSTRACT. As an authoritative guide for the inspection of materials and workmanship in building construction, this Check List has been prepared by a representative committee of Federal agencies engaged in activities relating to the design and erection of buildings. It is based, to a large extent, upon the experience of the members of the committee collaborating in its preparation and is intended to assist a field inspector in the performance of his duties and to insure that no important step is overlooked as construction progresses. The list is in no sense a specification outline. In arrangement it follows normal construction procedures and interlocking operations in regular order rather than by individual trades and should be a helpful daily reminder to the general field inspector. As the title indicates, this volume is a 68-page 'check list' in outline form.

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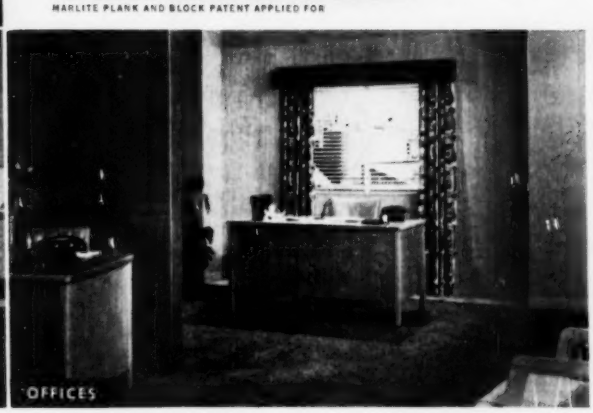

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PART VI

(a) Theory and Principles of Housing Finance

FINANCING

(841) "TYPES AND USES OF REAL ESTATE FINANCING—Chapter 1 of (pages 293–296) in Section Seven: Financing, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. The Broker's Function; 2. First Mortgage; 3. Second or Junior Mortgage; 4. Amortized Mortgage; 5. Contract for Deed; 6. Straight Term Mortgage; 7. First Mortgage Bond Issue; 8. Junior Mortgage Bond Issues; 9. Stock Issue; 10. Land Trust Certificate; 11. Construction Loan; 12. Leasehold as Financing Surety; 13. Combination of Plans; 14. Use of Financing; and 15. Mortgage Moratoriums.
This chapter is largely based on lectures on real estate fundamentals by L. E. Frailey, formerly Sales-Manager of John W. Galbreath & Co., Cleveland, Ohio, and Harry Grant Atkinson of the National Association of Real Estate Boards.

(842) "FINANCING HOME OWNERSHIP"—Chapter 2 (pages 297–310) in Section Seven: Financing of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Savings and Loan Function; 2. Types of Loans; 3. SHORT-TERM LOANS; 4. Unsound Premise; 5. High Cost of Operation; 6. Mortgage "Commissions"; 7. Danger to Lender and Borrower; 8. LONG-TERM LOANS; 9. Share-accumulation Plan—Method; 10. Depression Experience; 11. Disadvantages to Borrower; 12. Direct-reduction Loan Plan—Method; 13. Advantages; 14. Variations; 15. Cancel-and-Endorse Plan—Method; 16. Advantages and Disadvantages; 17. Comparison of Loan Plans.
This chapter is based on the book SAVINGS AND LOAN PRINCIPLES by Morton Bodfish and A. D. Theobald, published by Prentice-Hall, Inc., New York, N.Y.

(843) "THE BROKER'S FUNCTIONS IN FINANCING"—Chapter 3 (pages 311–321) in Section Seven: Financing of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Broker's Financial Interest; 2. The Mortgage Banker or Broker; 3. Mortgage Brokerage Fees; 4. The Selection of Type of Loan; 5. Sources of Real Estate Loans; 6. Federal Housing Administration—FHA; 7. What the Lender Considers; 8. Preparation and Execution of Mortgage and Deed of Trust; 9. Special Provisions; 10. Information Broker Should Have about Lenders in his Locality; 11. Comparison between Individual and Institutional Lenders; 12. Foreclosures; and 13. Bibliography.
This chapter is based, in part, on material in Prentice-Hall's Real Estate Service.

(844) "NEW HOME PRICE SHIFTS, 1951-1952 UNDER CREDIT CONTROLS AS AMENDED IN 1951" by Henry B. Schechter; in *Housing Research*, March 1953, pages 33-42; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Housing Volume; 3. Price Distribution; 4. Conventionally Financed Homes; 5. Square Foot Area; 6. Income Distributions; and 7. Technical Note on Sources.
ABSTRACT. Changes in housing credit regulations for houses in different price classes affect the percentage of the total volume of new housing being produced in various price classes as well as the total volume of new housing. Special tabulations of data on commitments issued by the Federal Housing Administration to insure loans, monthly data on prices of homes purchased with Veterans Administration guaranteed loans, and other available information have been utilized in this article to trace, to the extent feasible, the effects of the significant change in housing credit regulations made on September 1, 1951, upon the price distribution and total volume of new housing. The article was prepared under the direction of Dave Lowery, Chief of HHFA's Housing Finance Branch.

(845) "HOME FINANCING 1949-51—CHANGES UNDER CREDIT CONTROLS" by Henry B. Schechter; in *Housing Research*, Winter 1951-1952, pages 7-18; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Highlights; 2. Pre-Regulation X Financing Patterns; 3. Housing Volume; 4. Pre-Regulation Buyers Ineligible Under Regulations; 5. House Price Distributions; 6. Income Distribution of Buyers—FHA Program; and 7. Source and Reliability of Sample Data.
ABSTRACT. This article reviews changes in mortgage financing patterns which developed during the first year of emergency real estate credit restrictions. The basic information presented here, much of it previously unpublished, has been gathered principally under contract and by staff activity of the HHFA Division of Housing Research. This discussion includes pre- and post-Regulation X comparisons of housing volume, house price distribution, and income distribution of home buyers. The article was prepared under the direction of Dave Lowery.

(846) "HIGHLIGHTS OF OUTSTANDING RESIDENTIAL MORTGAGE DEBT ANALYSIS." by Henry B. Schechter; in *Housing Research*, October 1953, pages 41-54; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Dollar Amount and Age of the Debt; 2. Distribution of the Debt by Type of Lender and Type of Loan; 3. Number of Total and Owner-Occupied Mortgaged Properties; 4. Debt in Relation to Market Value; 5. Debt Service and Purchase Price in Relation to Income; 6. Veteran Status of Owners; 7. The Interest Rate; 8. Purpose of Loans; and 9. Tables.
ABSTRACT. This article presents a few highlights of figures on total outstanding mortgage debt and of significant relationships which indicate strong and weak points of the outstanding debt on owner-occupied homes. It permits a cross-sectional view of relationships, such as debt to value and debt service to income for conventional, FHA-insured, and VA-guaranteed mortgages as of August 1950. The data on residential financing from the 1950 Census of Housing were made available in advance of publication by the Bureau of the Census to the Housing and Home Finance Agency for working purposes. This article was prepared under the direction of Dave Lowery.

(847) "NATIONAL AND LOCAL MORTGAGE MARKET STRUCTURES" by Henry B. Schechter; in *Housing Research*, October 1952, pages 9-22; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Three local mortgage markets, having three different types of market structure, have been studied in contract research projects sponsored by the HHFA. The three studies were conducted in Hagerstown, Maryland by the University of Maryland, in Jacksonville, Florida by the University of Florida, and in the San Francisco Bay Area by the University of California. This article integrates certain significant findings from the three local mortgage market studies with recent mortgage finance data on a local and regional basis from other sources. An analysis of the material points to certain effects upon local markets which are related to the current national and local mortgage market structures. Includes a consideration of: 1. Local Mortgage Market Structures; 2. Effects Upon Housing Markets; 3. Extent of Area Differences; 4. Changes in Investment Policies; and 5. Conclusion. The article was prepared under the direction of Dave Lowery.
NOTE: For a summary report on each of the first two surveys cited above, *see* "Small City Mortgage Market: Hagerstown" by Henry B. Schechter, and "Metropolitan Mortgage Market; San Francisco" by Dr. Paul F. Wendt and Daniel B. Rathbun, on pages 9–16 and 17–25 respectively, of *Housing Research* for Fall 1951, which are cited in the present reading list as items (875) and (876).

(848) "HOUSING INVESTMENT AND FINANCE"—Chapter 9 (pages 225–256) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes a consideration of: 1. THE AVAILABILITY OF EQUITY FUNDS; a. Funds for Use-Ownership; b. Investment in Rental Properties; c. Co-operative and Trustee Forms of Ownership; 2. DETERRENTS TO EQUITY INVESTMENT; a. Nonliquidity of Housing Investment; b. Effects of the Real-Estate Tax System; c. Problems of Value and Management; 3. THE USE OF LONG-TERM CREDIT; a. The Mortgage as a Financial Investment; b. The Mortgage Interest Rate; c. Sources of Mortgage Finance; 4. SUMMARY.

(849) "RELATION OF FINANCE TO THE PROBLEM OF DISTRIBUTION"—Section 3 of Chapter 11: Removing the Obstacles, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

This section considers: a. Encouragement of Rental-Housing Investment; and b. Developing New Methods of Housing Finance.

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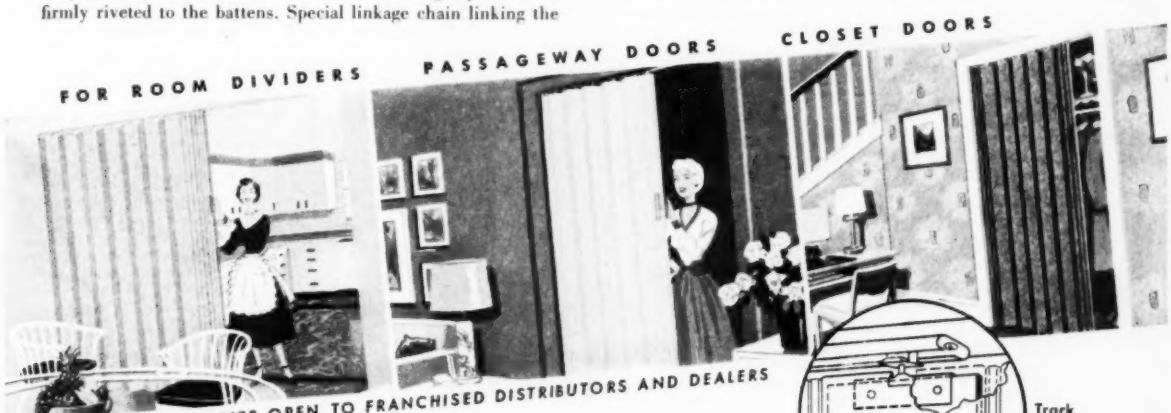

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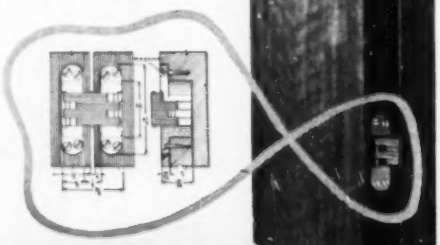

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(850) "PROBLEMS IN INVESTMENT AND FINANCE" (Conclusions concerning)—Section 1(d) of Chapter 12: Conclusions and Recommendations of the Housing Committee, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; Price: $3.00

(851) "GOVERNMENT AND HOUSING FINANCE"—Section 2 of Chapter 10: Government and the Housing Market, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

This section considers: a. The Federal Home Loan Bank Board and Affiliates; b. The Federal Housing Administration; and c. Questions Raised by the Dual Financial System.

(852) "MORTAGES" — Chapter IX (pages 157—173) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. What is a Mortgage?; 2. Origin of Mortages; 3. Rules which Govern Mortgages; 4. An Early Example of Equity; 5. Kinds of Mortgages; 6. Priority of Lien; 7. Form of Mortgage; 8. Description of Debt Secured; 9. Covenants Peculiar to Mortgages; 10. Delivery; 11. Rights of a Mortgagor; 12. Assignment of Mortgages; 13. Payment of Mortgage Debt; 14. Partial Release of Mortgage; 15. Form of Release; 16. Default; 17. Jurisdiction of the Courts; 18. Foreclosure by Court Proceeding; 19. Effect of Foreclosure on Junior Mortgages; 20. Foreclosure under Power of Sale; 21. Deficiency Judgments; 22. Purchase-Money Mortgage; 23. Mortgage Moratorium Legislation; and 24. Package Mortgages.

(853) "REAL ESTATE FINANCING AND RISKS"—Chapter XIX (pages 345—364) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. The Recent Rise in Prices; 2. Amount of Mortgage Debt; 3. Equity and Borrowed Capital; 4. Other Reasons for Scarcity of Equity Capital; 5. Corrective Market Action; 6. Not Real Estate Only; 7. Other Factors Affecting the Flow of Equity Capital; 8. Dependence on Borrowed Capital; 9. Early Home-Financing Procedures; 10. Examples of Early Building and Loan Practices; 11. The End Risk of Real Estate Financing; 12. Equity Financing in Practice; 13. Other Contributing Factors; 14. Risks and the Cost of Doing Business; 15. The Interest Rate; 16. Other Loan Costs; 17. The Narrowing Spread; 18. Analysis of Personal Risks; 19. Property Risk; 20. Economic Risks; and 21. Basic Position of Finance.

(854) "LOANS AND TERMS" (Construction Loans, etc.)—Chapter XX (pages 365—380) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Construction Loans—A Special Problem; 2. Construction Loans—the Equity Question; 3. Construction Loans—The Legal Aspects; 4. Construction Loans—Procedure; 5. Construction Loans—Disbursements; 6. Construction Loans—Completion Bonds; 7. Why Make Construction Loans?; 8.

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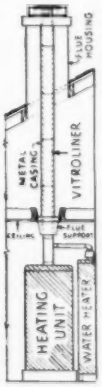

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(855) "SOURCES OF FUNDS—PRIMARY MARKETS"—Chapter XXI (pages 381—402) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Availability of Mortgage Funds; 2. Distribution of the Non-Farm Mortgage Debt; 3. Mortgage Recordings of $20,000 and Less—1946; 4. Primary and Secondary Sources; 5. Savings and Loan Associations; 6. Lending Powers—Savings and Loan Associations; 7. Life Insurance Companies; 8. Mutual Savings Banks; 9. Commercial Banks; 10. Individual and Other Lenders; 11. Mortgage Companies; 12. Other Means of Financing; 13. First Mortgage Bonds; 14. Other Mortgage Bonds; 15. Debenture and Income Bonds; 16. Leasehold Mortgage Bonds; 17. The Organized Exchange; 18. The Volume of Real Estate Securities Sold; 19. The Amott-Baker Price Average; 20. Appraisal of Price Changes; and 21. Appraisal of Future Prospects.

(856) "SOURCES OF FUNDS—SECONDARY MARKETS"—Chapter XXII (pages 403-428) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Reserve Credits in the Urban Real Estate Field; 2. Other Views on Mortgage Reserve Credit; 3. Emergency or Permanent Need; 4. Purposes of Reserve Mortgage Credit; 5. Marketability of Mortgages; 6. Safety and Liquidity; 7. The Federal Housing Administration; 8. Title II Provisions; 9. Section 207 Provisions and Activities; 11. Insurance Premium and Settlement; 12. Record of Defaults; 13. Some Observations; 14. The Sources of Secondary Funds; 15. The Reconstruction Finance Corporation; 16. The R.F.C. Mortgage Company; 17. The Federal National Mortgage Association; 18. The Home Owners' Loan Corporation; 19. The Federal Home Loan Bank System; 20. F.H.L.B. System—Pattern of Operations; 21. F.H.L.B. System—Sources of Funds; 22. F.H.L.B. System—Extent of Operations; 23. Other Secondary Market Facilities; and 24 Further Developments.

(857) "URBAN LAND CREDIT"—Chapter 8 (pages 207—232) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, N. Y., 1949.—533 pages; price: $6.50

This chapter considers: 1. Function of Land Credit; 2. Forms of Land Credit; 3. Mortgage Financing; 4. Junior Mortgages; 5. Land Contracts; 6. Long-term Lease; 7. Home Financing; 8. Financing Construction; 9. Ground-rent Financing; 10. Refinancing; 11. Lending Terms; 12. Loan Servicing; 13. Pattern of Mortgage Lending; 14. Mortgage Risk Analysis; and 15. Financing Income Properties.

(858) "THE HOME MORTGAGE MARKET"—Chapter 9 (pages 233-279) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: $6.50

This chapter considers: 1. Organization of the Market; 2. Mortgage Lenders; 3. Individuals; 4. Savings and Loan Associations; 5. Banks and Trust Companies; 6. Mutual Savings Banks; 7. Life Insurance Companies; 8. Other Lending Agencies; 9. Background of Federal Intervention; 10. Federal Home Loan Bank System; 11. Federal Savings and Loan Associations; 12. Federal Savings and Loan

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(859) "FINANCING PROBLEMS" (of Subdividing)—Chapter 12 (pages 100—106) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: $5.75

This chapter considers: 1. Introduction; 2. Methods of Subdivision Financing; 3. Acquisition of Land; 4. F.H.A. Support; 5. Observance of Laws; 6. Sale of Stock; 7. Calculating Profit Bearing Possibilities; 8. Timing of Operations; 9. Sales Expenses; 10. Conclusions.

(b) Application of the Method (Prototype Studies)

(871) FINANCING HOUSE CONSTRUCTION IN THE NORTHWEST: A SURVEY OF SELECTED CITIES by Bayard O. Wheeler, College of Business Administration, University of Washington; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1951, as "Housing Research Paper No. 17."—55 pages; price: 30¢. Order copies from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Purpose and Scope of Study—Summary; 2. The Construction Credit Market; 3. Basic Concepts—Definitions; 4. Market Practice—Steps in the Construction Loan Process; 5. Construction Investment by Builder and Lender; 6. Cost to Builder of Construction Loan Funds; 7. Term (Length) of Construction Loans; 8. Conditional Requirements of Builders to Qualify for Construction Credit; 9. Inspections and Advances; 10. Liquidation of Construction Loans; 11. Net Yield on Construction Credit; 12. Adequacy of Construction Loan Funds; 13. Conclusions—The Influence of Construction Credit Upon the Cost and Volume of Building; 14. Appendix: The Field Survey—Method and Content.

ABSTRACT. A report on the results of a survey of the market practices of the construction loan field in the Northwest. It embraces the many steps involved in the process of financing single-family dwellings in four major Northwest cities. The construction loan credit markets in Boise, Idaho; Portland, Oregon; Seattle and Spokane, Washington, are surveyed and their components identified, with a comprehensive discussion of the flow and yield of construction investment funds. The place and significance of commercial banks, insurance companies, mortgage loan companies, mutual savings banks, and savings and loan associations, in the field of housing construction financing is explained. The various mortgage lending policies, as they affect home construction financing, are enumerated and their influence traced. The role of primary and secondary lenders, and their effect on the market, are reported. The entire survey was sponsored by the H.H.F.A. Staff technicians for the H.H.F.A. on the project were Dave Lowery and Fielding L. Huesmann.

(872) THE SAN FRANCISCO BAY AREA RESIDENTIAL MORTGAGE MARKET by Paul F.

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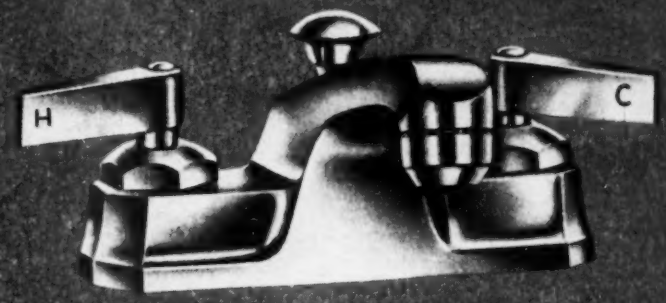
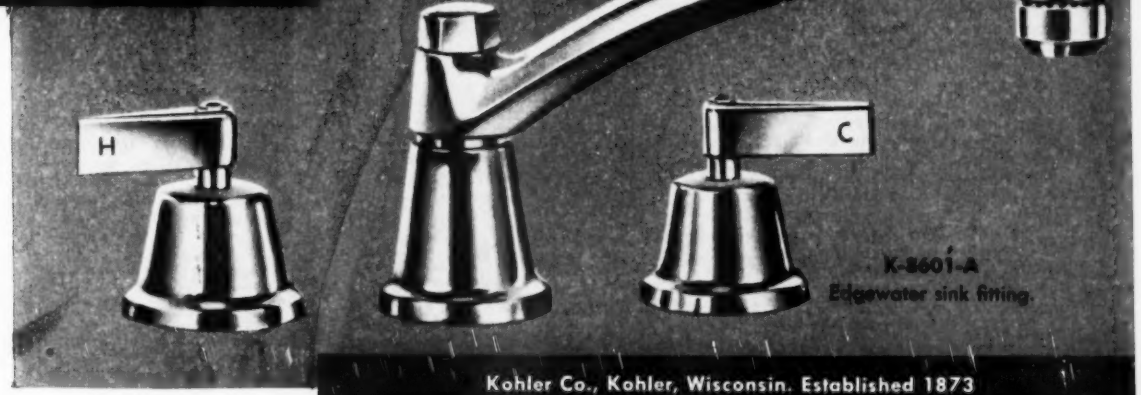
K-7027 Triton shower and bath fitting with Niedecken mixer.



K-8005-A Centra lavatory fitting with pop-up drain.



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Wendt and Daniel B. Rathbun, School of Business Administration, University of California; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1952, as "Housing Research Paper No. 20."—48 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Postwar Housing Market Developments in the San Francisco Bay Area; 2. The Supply of Mortgage Funds in the Bay Area; (a) Institutional structure; (b) Determinants of institutional structure; (c) Construction loans; (d) Conventional lending; (e) Insured and guaranteed loans; (f) Multifamily dwelling loans; (g) Secondary market; (h) Mortgage instruments; (i) Relation to other mortgage markets; 3. Review of Loan Policies and Procedures; (a) Banks; (i) Legal Controls; (ii) Mortgage lending policies; (iii) Practices of subgroups of lenders; (iv) The changing role of banks; (b) Savings and loan associations; (i) Legal controls; (ii) The role of savings and loan associations in the Bay Area; (iii) Mortgage lending policies; (iv) The future of savings and loan associations in the Bay Area; (c) Insurance companies; (i) Legal controls; (ii) Mortgage lending policies; (d) Individuals and other mortgagees; (i) Legal controls; (ii) Mortgage lending policies; (iii) Mortgage lending to minority groups; (iv) Department of Veterans Affairs of the State of California; 4. Synopsis; and 5. Appendix (Tables).

ABSTRACT. This report analyzes the organization and operations for mortgage financing in the San Francisco Bay Area in the years 1946-50. It describes the institutional structure for mortgage lending in the Bay Area and analyzes the role of the various types of lenders operating in the Area with regard to the different types of mortgage financing. It reviews the loan policies of the different lenders, pointing out the types of lenders which are most influential in making government-insured or guaranteed loans and conventional loans for long-term financing or for construction financing, which lenders are more active in making loans on multi-family dwelling properties and what is the relationship between outside sources of mortgage funds and mortgage lending in the Bay Area. The report also describes the legal framework within which each type of lender operates in the Bay Area and provides a brief description of housing market developments since World War II. The entire study was sponsored by the H.H.F.A. Staff technicians for the H.H.F.A. on the project were Dave Lowery and Henry B. Schechter.

(873) CLOSING COSTS AND SETTLEMENT PAYMENTS IN THE JACKSONVILLE, FLORIDA MORTGAGE MARKET, FEBRUARY 15–AUGUST 15, 1950; by the Bureau of Economic and Business Research, College of Business Administration, University of Florida; George B. Hurff, Director; Wylie Kilpatrick, Felix Muehlner, and Carter C. Osterbind, Research Professors; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1952, as "Housing Research Paper No. 22." —36 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Three Basic Definitions; 3. The Classification of the Closing Costs in Settlement Statements; (a) The costs of mortgage financing incident to the purchase of property; (b) The cost of services incident to property ownership; (c) The cost of services and the fees and taxes incident to the purchase of property; (d) Costs related to construction of new houses; 4. Difficulties in Determining Cost, Its Incidence and Components; 5. Individual Closing Cost and Payment Items; (a) Title Insurance; (b) Mortgage Service Charge; (c) Hazard Insurance; (d) FHA insurance; (e) Property survey; (f) Closing fee; (g) Appraisal report; (h) FHA examination fee; (i) Intangible tax on the mortgage; (j) Stamps on the note; (k) Inspection fees; (l) Credit report; (m) Prepaid interest; (n) Taxes; (o) Recording fees; (p) Stamps on deeds; (q) Construction loan fee; (r) Builders' risk insurance; (s) Water-tap deposit; (t) Summary comparison of typical closing costs; 6. Down Payments; 7. Summary of All Stated Settlement Items Borne or Paid by Mortgagors for Typical Loans; 8. Variations in Closing Costs and Payments and Lenders' Practices as Revealed by Their Typical Settlement Statements; 9. Appendix; (a) Information sources for tables; (b) Schedule of fees; and (c) Rates for title insurance.

ABSTRACT. The findings on loan closing costs and other settlement payments presented in this publication were obtained as part of a comprehensive study of operations of the residential mortgage market in Jacksonville during a 6-month period in 1950. This report provides for the first time an organized framework for discussion of the complex subject matter on closing costs. It provides an orderly organization of terms involved in the settlement of a home purchase transaction. In addition to the classification, the individual closing cost items are analyzed to show the services covered by each cost item. Finally, the report shows the magnitude of closing costs as found in the Jacksonville area during the period of the study. The entire study was sponsored by the H.H.F.A. Staff technicians for the H.H.F.A. on the project were Dave Lowery and Henry B. Schechter.

(874) RESIDENTIAL MORTGAGE FINANCING, JACKSONVILLE, FLORIDA, FIRST SIX MONTHS OF 1950 by the Bureau of Economic and Business Research, College of Business Administration, University of Florida; George B. Hurff, Director; Wylie Kilpatrick, Felix Muehlner, and Carter C. Osterbind, Research Professors; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., December 1952, as "Housing Research Paper No. 23."—97 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Some Highlights of the Market; 2. Introduction; (a) Purpose and scope of the study; (b) The plan of presentation; (c) Principal sources of information; 3. The Jacksonville Mortgage Market; (a) Concept of a market; (b) Scope of the market; (c) A brief comment on the development and economic characteristics of Jacksonville; (d) Market components and attributes; (i) The mortgagees; (ii) The mortgagors; (iii) The builders of the pledged property; (iv) The sales contract and terms of settlement; (v) The mortgage contract; (vi) The real property securing the contract; (vii) The assignees; 4. The Position of the Borrower; (a) VA-guaranteed, FHA-insured, and FHA-VA combination mortgages on new residential structures; (b) VA-guaranteed, FHA-insured, and FHA-VA combination mortgages on existing structures; (c) Conventional mortgages on new and existing residential structures; (d) Characteristics of mortgages; (i) Interest rates; (ii) Amortization; (iii) Monthly payments; (e) Characteristics of Mortgagors; 5. The Role of the Lender; (a) Market-Wide Policies of Mortgagees; (i) Policies governing the approval of loan applicants; (ii) Interest rates; (iii) The use of the credit report; (iv) Policies as to the mortgage contract; (b) Summary comment on the roles of lender groups; (c) Role of the institutional lenders; (i) The role of real estate firms—and brokers; (ii) The role of the insurance companies; (iii) Role of savings and loan associations; (iv) Role of lumber and building supply companies; (v) The role of banks; (vi) The role of others; (d) Role of individual investors; (i) Number, type, and dollar volume of residential mortgages originated by individuals; (ii) Principal, interest rates, and amortization of first mortgages originated by individuals; (e) The scope and volume of lenders' operations; (f) Role of the lender; 1947-50; (ii) Participation of intern: 1947-50; (ii) Participation of institutional lender groups: 1947-50; (iii) The participation of individual lenders; 1947-50; 6. The Role of the Builder and his influence on mortgage financing; (a) The size of building firms; (b) Other characteristics of builders; (c) Construction loans; (d) Land purchase policies of builders; (e) Summary comments; 7. The Secondary Market; (a) Assignments; (b) Geographic location of major assignees; (c) Sources of long-term mortgage funds; (d) Legal position of out-of-state mortgagees; 8. Techniques; (a) Supplementing currently published housing finance data on a reporting basis; (b) Veterans Administration records as a source of information on mortgage financing and other settlement payments; (c) County records as a source of information on the flow of mortgage funds; (d) Data sources for special studies; (i) Mortgagor interviews; (ii) Interviews with lending institutions; (iii) Builder interviews; (iv) Information from county and city records; (v) Veterans Administration records in field offices; (vi) Information from confidential records; (vii) Other sources of information which could be used in special studies; (e) General comments; 9. Appendix A: Procedure and Sample Techniques Employed in Interviews of Mortgagors Initiating Residential Mortgages of $500 to $20,000 (inclusive) as Recorded in Jacksonville, Florida, for the Period February 15-August 15, 1950; (a) Introductory note; (i) Purpose of sample; (ii) Determination of the universe; (iii) Procedure of mortgagor interviews; (iv) Classification and designation; (v) Sampling techniques and results; (vi) Verification of 96 LCO mortgages; (vii) Extension of the preliminary mortgage universe; (viii) Mortgages selected for special study, including the pilot sample and the verified mortgages; 10. Appendix B: Tables, and Questionnaire Form.

ABSTRACT. This is a report analyzing the organizational structure for the financing of homes and its operation in the Jacksonville, Florida metropolitan area during the first 6 months of 1950. The material in this report, gathered in a survey sponsored by the H.H.F.A., analyzes the roles of the various types of lending institutions, the home builders and the home buyers with respect to mortgage financing in Jacksonville. Data are presented which bring out very clearly the major dependence of the Jacksonville housing market upon an influx of mortgage funds from outside sources. The support of Government home financing programs and the Government secondary market, as well as the support of large private outside lending institutions, is analyzed and measured in quantitative terms. The function and the importance of each type of local lender and outside lender operating in the Jacksonville mortgage market are described. The work underlying this report was carried on as part of an extensive program of studies of home financing and the mortgage market by the Housing and Home Finance Agency. See, for example, items (847), (873), and (39) of the present reading list. Professor Albert A. Ring of the University of Florida contributed importantly to the present study. H.H.F.A. staff technicians on the project were Dave Lowery and Henry B. Schechter.

(875) "SMALL CITY MORTGAGE MARKET: HAGERSTOWN" by Henry B. Schechter; in *Housing Research*, Fall 1951, pages 9-16; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Economic Background; 2. Construction Financing Funds and Methods; 3. Financing Large-Scale Projects; 4. Sources of Long-Term Funds; 5. Mortgage Lending Practices; 6. The Borrowers; 7. Types of New Houses Provided; 8. Housing for Negroes; 9. Liquidation Experience of Mortgage Loans; 10. Credit Regulations; and 11. The Defense Housing Situation.

ABSTRACT. In 1950 the HHFA sponsored three research projects designed to produce a composite picture of mortgage market operations in representative United States localities. Though started before the emergency situation of 1950 developed, these studies are yielding valuable information on typical local situations into which stricter controls of real estate credit have been injected. The first article, presented here, describes

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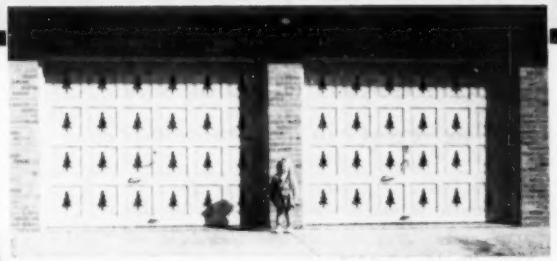

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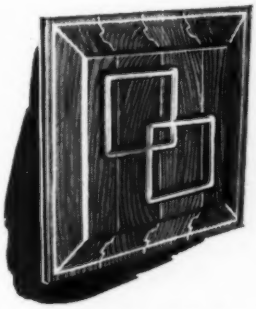

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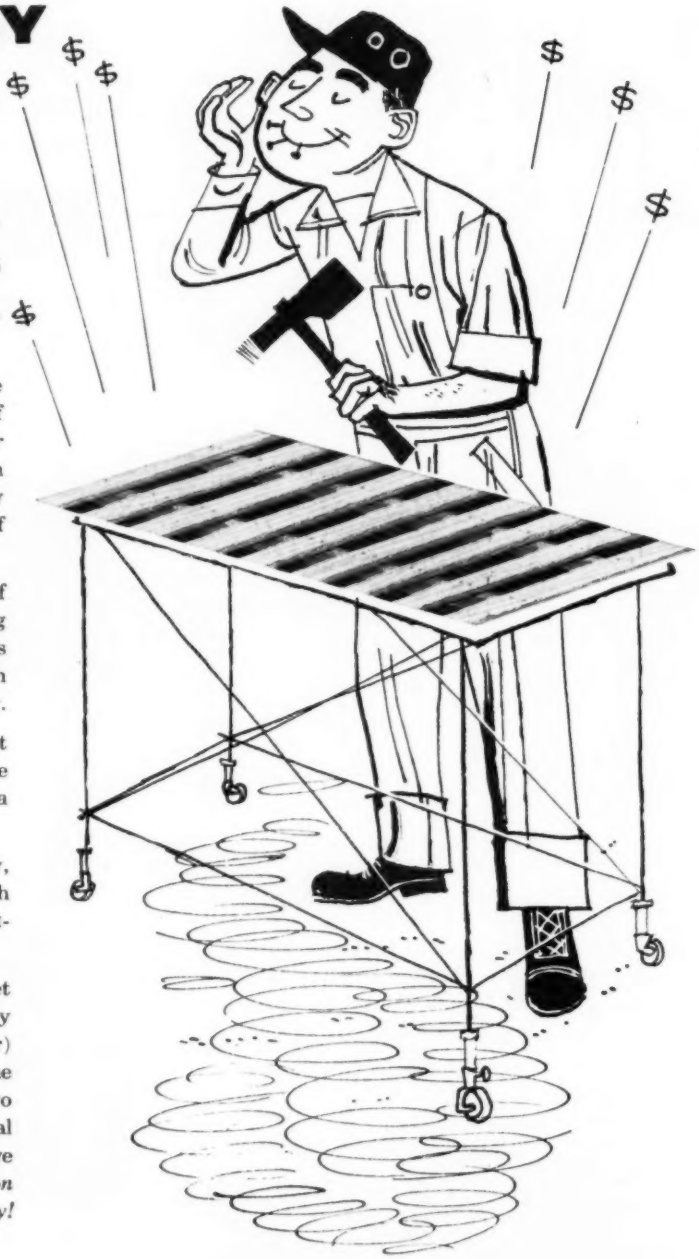

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mortgage activity in a small city on the eve of Regulation X. It is based on results of an HHFA research project conducted by the University of Maryland. For the second article of the series, which deals with the San Francisco Bay Area, see item (876) of this reading list. HHFA staff technicians on the Hagerstown and San Francisco projects were Harry L. Severson and Dave Lowery.

(876) "METROPOLITAN MORTGAGE MARKET: SAN FRANCISCO" by Dr. Paul F. Wendt and Daniel B. Rathbun; in *Housing Research*, Fall 1951, pages 17-25; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Structure and Loan Policies; 2. Conventional Loans Dominated by Banks; 3. Banks Supply Construction Credit; 4. Insured Lending led by Banks; 5. Banks Follow Leader on Policy; 6. Insurance Company Role Grows; 7. Saving and Loan Groups Play Lesser Part; 8. Individuals Still Important Mortgagors; 9. Government Agencies and the Mortgage Market; 10. Lenders Use Private Secondary Market; 11. Effect of Credit Restrictions; 12. Backlog Feeds Construction Volume; 13. Credit Curb Impact Delayed; 14. Loan Market Sensitive to Bank Policies; 15. Demand and Defense are Key Factors.

ABSTRACT. The San Francisco Bay Area is one of the fastest-growing metropolises in the United States. This article examines the intricate relationships among different kinds of mortgage lenders in San Francisco and its satellite cities, and shows the place of each in metropolitan mortgage activities. The authors have prepared this article as a summary of preliminary results of an HHFA research project at the University of California. As in the case of item (875), above HHFA staff technicians for the project were financial economists Harry L. Severson and Dave Lowery.

PART VII LABOR RELATIONS

(891) "THE SKEPTICISM OF LABOR"—Section 2 of Chapter 6: Problems in Industrial Change, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L .Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

This section considers: a. Challenge of the CIO; and b. Change in AF of L Attitude.

PART VIII BUILDING, ZONING, and SUBDIVISION REGULATIONS

(a) Building Codes and Regulations

(901) "AN OUTLINE FOR RESEARCH ON BUILDING REGULATIONS" by Gilbert R. Barnhart; in *Housing Research*, Spring 1952, pages 29-38; published by the Housing and Home Finance Agency; Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Regulation as a Continuous Research Problem; 2. The Two Interested Groups; 3. General and Special Fields of Research; 4. Research as a Bridge Between Technology and Law; 5. The Relation of Building Regulations Research to General Building Research; (a) Changes in functions and uses of buildings; (b) The structure and internal standards of the building industry; 6. Direct Research on Building Regulations; (a) Purposes of public regulations; (i) Division of labor; (ii) Economic effects; (iii) Promotion of new purposes; (b) Technical provisions of public regulations; (i) Re-evaluation of hazards; (ii) Development of standards; (iii) Performance codes and test methods; (c) Administration of regulations; (i) Survey of legal powers; (ii) Survey of existing local codes and administrative agencies; (iii) Improvement of administrative powers and methods; 7. The Problem of Uniformity of Regulations; (a) The geographic scope of research; (b) Distribution of research findings through training courses; and 8. Summary.

ABSTRACT. Writing, administering, and keeping up to date the building codes and regulations in each city is a very large job. The purpose of this article is to demonstrate that this job requires continuous research through the cooperative efforts of many individuals and groups.

(902) "BETTER BUILDING CODES THROUGH BETTER ADMINISTRATION" by Gilbert R. Barnhart; in *Housing Research*, March 1953, pages 53-58; published by the Housing and Home Finance Agency Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Challenge to Local Government; 2. The Administrative Factor in Use of National Code Standards; 3. The Concept of Effective Administration; 4. The HHFA Training Materials; 5. Defining Purposes; 6. State-Local Relationships; 7. Legal Principles; 8. Administrative Procedure; 9. Building Officials and Housing Codes; 10. Building Officials' Public Relations; and 11. Conclusion.

ABSTRACT. When building codes are discussed, the local government machinery for enforcing them usually receives far less attention than the technical requirements. However, effective local use of good technical requirements depends upon the capacity of the local building official and upon the administrative facilities available to him. The importance of improving code administration was pointed out in *Housing Research* No. 3, in an article entitled "An Outline for Research on Building Regulations," for which see item (901) of this reading list. Some materials for this purpose are now available as the result of HHFA contract research. The present article further discusses the role of administration in the local application of technical standards, and describes the use of the HHFA materials for the training of local building officials.

(903) MODEL EMERGENCY BUILDING ORDINANCE—Prepared by the Technology Branch of the Division of Housing Research, Housing and Home Finance Agency with the advice and assistance of the Advisory Committee on Administration of Local Building Regulations; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., July 1951.—8 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Introduction; 2. Model Ordinance; and 3. Notes on the Model Ordinance.

ABSTRACT. A pamphlet containing model provisions for building codes and related ordinances which authorize the building official, during periods of shortages, to permit builders to use available alternate and substitute materials and methods of construction. The pamphlet includes a set of notes which explain the purpose of each provision in the model ordinance.

(904) PREPARATION AND REVISISION OF BUILDING CODES by George N. Thompson; Building Materials and Structures Report BMS 19; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1939.—18 pages; price: not available. Superseded by Building Materials and Structures Report BMS 116, listed immediately below as item (905).

(905) PREPARATION AND REVISION OF BUILDING CODES by George N. Thompson; Building Materials and Structures Report BMS 116 (Supersedes BMS 19); published by U. S. Department of Commerce, National Bureau of Standards. Washington, D. C.—Issued September 1, 1949.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. What the Building Code Is; 3. Extent of Code Requirements; 4. Police Power;

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5. Effect on Community; 6. Tests for Codes; 7. Methods of Starting Code; 8. Composition of Local Committee; 9. Study of City Needs; 10. Collection of Available Material; 11. Methods of Preparing Code; 12. Use of Consultant; 13. Code Arrangement; 14. Performance Basis; 15. Use of Standards; 16. Acceptance of New Materials and Methods; 17. Rules and Regulations; 18. Provisions for Changes in Code; 19. Enforcement; 20. Board of Appeal; 21. Appendix; 22. Conclusions; and 23. Selected References.

ABSTRACT. Building construction has been subjected for many years to legal control in the interest of safety and health. While there is general agreement on the need for this, specific applications in the form of building codes have been frequently criticized on the grounds of imposing excessive expense and of failing to make adjustments to changing conditions. The responsibility for preparing or revising building codes usually falls upon local committees. These are called upon to do a great deal of tedious and exacting work. One of their first problems is to determine what source material is available and how they should proceed. In this discussion, a description is given of how such work is done and useful sources of technical information are indicated. Some of the problems that are encountered by local committees are mentioned, including what basic principles are involved; methods of presentation, arrangement, and numbering; advantages of using national standards and ways of referring to them; methods of recognizing new materials and new methods of construction; extent of delegation of authority to the building official and safeguards against arbitrary action; and other questions of major importance. An attempt has been made to place committees in possession of sufficient information to proceed in their work with a minimum of lost motion. Not all questions can be answered with finality, since the situation is complicated by the existence of proposals of nearly equal merit and by differing judicial decisions. Such differences will no doubt continue to exist for some time; but they are not of sufficient importance to be allowed to obscure the main objective of providing adequate protection without creating too much of a drag on the building industry. Constructive work in the field of building-code requirements has been going on continuously for some time and will exert an ever-increasing influence. This discussion is offered to supplement such work and as a contribution to the orderly development of good requirements. Efficient use of building materials depends not only on accurate knowledge of their characteristics but also on the legal restrictions imposed by public authorities in the interest of safety. If these restrictions do not recognize late developments in design and construction that have been found to be safe, they may cause unnecessary expense, prevent the free exercise of ingenuity in design, and discourage the introduction of new materials and methods. This report discusses the great and growing mass of basic material which must be examined and endeavors to indicate a procedure through which full advantage may be taken of developments in the laboratory and in the field, while preserving the primary object of safeguarding the public.

(906) BUILDING CODE REQUIREMENTS FOR NEW DWELLING CONSTRUCTION – Recommended by the National Housing Agency and Prepared in Consultation with The National Bureau of Standards; Building Materials and Structures Report BMS 107 (Note: Supersedes report BMS 88); published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.–Issued January 1, 1947.–43 pages; Out of print. See your librarian.

Recommended minimum requirements for dwelling construction, developed by the National Housing Agency in consultation with the National Bureau of Standards, are presented for consideration by local authorities in revising their building codes. The requirements are based on an earlier publication "Recommended Building Code Requirements for New Dwelling Construction," which has been revised in the light of suggestions from governmental housing agencies, the Forest Products Laboratory, and many industrial organizations. They make free

use of national standards, with such additions, modifications, and exceptions as the experience of the housing agencies has demonstrated to be advisable in the case of dwelling construction. An appendix supplies information intended to be helpful in applying and interpreting the provisions of the requirements themselves. Pages 36–43 provide an exhaustive index. The separate sections of the work are too numerous to permit listing here.

(907) "A PROGRAM FOR LOCAL TRAINING OF BUILDING OFFICIALS." by Gilbert R. Barnhart in *Housing Research*, October 1953, pages 33-39; published by the Housing and Home Finance Agency, Washington, D. C. price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. What Can Training Do?; 2. The Professional Objectives of the Building Official; 3. The Organization and Technical Subject Matter of the Profession; 4. Organization of the Training Program.
ABSTRACT. There is increasing awareness that more effective community organization is needed for dealing with the forces which create blight and slums. This is leading to recognition that the function of the local building official can be an important part of such organization. The present article suggests a training program to be undertaken by building officials to prepare themselves and the personnel under their supervision for greater participation in community development. The material was originally presented in a speech at the annual meeting of the Building Officials Conference of America, at Dallas, Texas, April 6, 1953 by Mr. Barnhart.

(908) "LAG IN THE USE OF RESIDENTIAL BUILDING PERMITS" by Kathryn R. Murphy; in *Housing Research*, Winter 1951-1952, pages 47-50; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Building Permit Lapses; 2. The Lag Pattern; 3. Effect of New Patterns on the Starts Estimate; 4. Need for Further Investigation; 5. Construction Cost and Permit Valuation; and 6. Conclusion.
ABSTRACT. Precise information on the national rate of home building is especially important during the emergency, to help achieve defense objectives. Lag and lapse in the use of building permits are factors used by the Bureau of Labor Statistics in computing its monthly estimates of nonfarm "dwelling starts." These factors are naturally subject to the impact of emergency economic regulations and changing defense requirements. HHFA therefore sponsored special studies by the BLS to determine recent changes in the lag and lapse pattern. Partial results of these surveys are summarized in this article by Kathryn Murphy of the Construction Statistics Division of BLS. Arthur C. Gernand was HHFA staff technician on the project.

(b) Plumbing Codes

(921) "DEVELOPMENT OF NATIONAL PLUMBING CODE" by Laurence Shuman; in *Housing Research*, Spring 1952, pages 46-51; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

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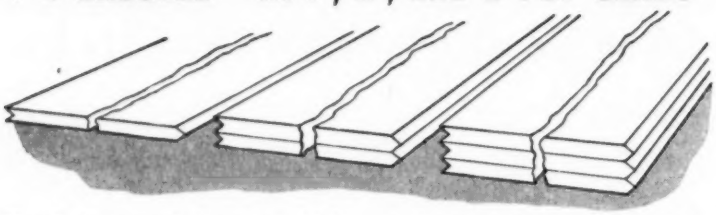

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Includes a consideration of: 1. Introduction; 2. The BH (Building and Housing) Codes. 2 and 13; 3. The Central Housing Committee—BMS 66 (for which see item (553) of this reading list); 6. American Standards Association—A40.7; 7. Emergency Plumbing Standards—O.E.M.; 8. Uniform Plumbing Code for Housing—Technical Paper No. 6 (for which see item (1222). It has since been superseded by the "Report of the Coordinating Committee for a National Plumbing Code," for which see item (922) of the present reading list.); 9. Western Plumbing Officials Association Code; 10. National Association of Master Plumbers Code; 11. American Society of Sanitary Engineering; 12. National Plumbing Code—item (922) of this reading list; and 13. Conclusion.

ABSTRACT. While the Housing Act of 1949 consolidated the responsibility for government housing research within the HHFA it should not be concluded that research activities of government in housing began at that time. An integrated approach to sound housing construction and planning, including plumbing, has long been an aim of government. As early as May 1921 a comprehensive effort toward the standardization and understanding of plumbing codes and principles of this country was made by the United States Department of Commerce. Cooperation of groups from all phases of the plumbing industry in and outside of government carried the work to its present sound position. The present article traces the development of plumbing research through its many phases to the final preparation and publication of a National Plumbing Code.

(922) REPORT OF THE COORDINATING COMMITTEE FOR A NATIONAL PLUMBING CODE—Prepared by the Committee; published jointly by the Housing and Home Finance Agency, and by the Department of Commerce, National Production Authority (as Domestic Commerce Series No. 28), Washington, D. C., June 1951.—125 pages; price: 50¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Foreward; 2. National Plumbing Code Committees; 3. Basic Principles; 4. Definitions; 5. General Regulations; 6. Materials—Quality and Weight; 7. Joints and Connections; 8. Traps and Cleanouts; 9. Interceptors, Separators, and Backwater Valves; 10. Plumbing Fixtures; 11. Hangers and Supports; 12. Indirect Waste Piping and Special Wastes; 13. Water Supply and Distribution; 14. Drainage System; 15. Vents and Venting; 16. Storm Drains; 17. Inspection, Tests, and Maintenance; 18. Appendix A: Individual Water Supply; 19. Appendix B: Individual Sewage-Disposal System; 20. Appendix C: Air Gaps, Backwater Preventers, and Drinking Fountain Standards; 21. Appendix D: Sizing the Water-Supply System; 22. Appendix E: Data on Administration; 23. Appendix TC: Trailer Coach Plumbing Standards; 24. Appendix TP: Trailer Park Plumbing Standards.

ABSTRACT. This report of the Coordinating Committee for a National Plumbing Code represents a consensus of the members of the Coordinating Committee and its Advisory Committee. It is based on experience and conclusions reached from research in the field of plumbing conducted at the National Bureau of Standards, the University of Iowa, the University of Illinois, the Public Health Service Environmental Health Center at Cincinnati, and other laboratories. Such research has contributed facts which have made possible a better understanding of phenomena observed in service and has provided a valuable basis for development of improved code requirements. (The National Plumbing Code Coordinating Committee A. F. Dappert and M. W. Cowles of the American Public Health Association; F. M. Dawson, *Chairman*, Albert H. Morgan, of the American Society of Mechanical Engineers; Herbert L. Schaller, Homer Yetman, Norbert Melnick, and John Bronzonie, of the American Society of Sanitary Engineering; L. Glen Shields and John P. Austin of the Building Officials Conference of America; Malcolm C. Hope and Earl Devendorf of the Conference of State Sanitary Engineers; Henry S. Blank and John H. Niewoehner of the National Association of Master Plumbers; Vincent T. Manas, *Executive*

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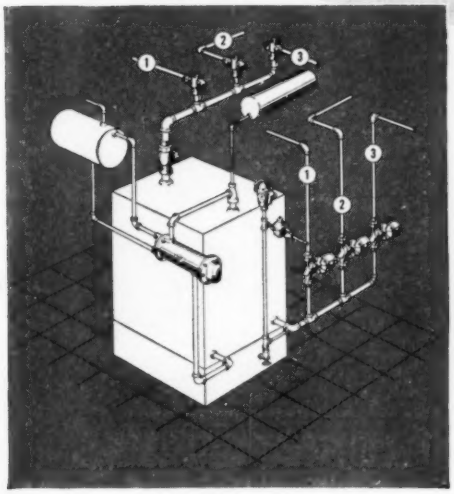

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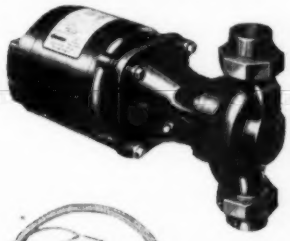

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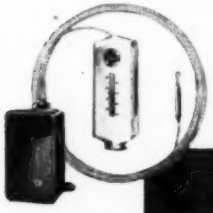

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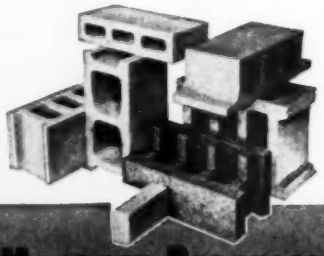

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(c) Zoning Regulations

(931) "PLANNING AND ZONING"—Chapter XXVI (pages 488-509) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Underlying Foundation of Rights; 2. The Nuisance Doctrine; 3. The Meaning of "Police Power"; 4. Distinction Between Police Power and Eminent Domain; 5. Basic Character of Police Power; 6. Application and Scope of Police Power; 7. Building Codes; 8. Zoning; 9. Rules of Zoning; 10. Zoning Ordinances; 11. An Example of the Application of Zoning Laws; 12. Legal Test of Zoning; 13. Limitations of Zoning Power; 14. Restrictions in Deeds; 15. Planning; 16. Need for Planning; 17. Need for Legal Authority; 18. Economic Problems of Planning; 19. Creation of Planning Agencies; 20. Urban Redevelopment; 21. Responsive and Corrective Action; 22. Nature of Legislative Provisions; 23. Means of Financing; and 24. Scope of the Problem.

(932) "ZONING"—Chapter 11 (pages 218–247) of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948. —337 pages.

This chapter considers: PART I: INTRODUCTION; a. Nature and Character of Zoning; b. What Zoning is not; c. Advantages of Zoning; d. Legality of Zoning Ordinances; and e. Interim Zoning Ordinances; PART II: ZONING DISTRICTS AND REQUIREMENTS; a. Regulation of the Use of Land and Buildings; b. Regulation of Building Heights; c. Area Regulations; d. Other Provisions of Ordinance: PART III: PROCEDURES FOR THE ESTABLISHMENT AND REVISION OF ZONING MAPS AND ORDINANCES; a. Preliminary Steps; b. Preparation of Tentative Zoning Map and Ordinance; c. Conduct of Hearings on Tentative Map and Ordinance; d. Adoption and Final Steps; and e. Revising Existing Zoning Maps and Ordinances; PART IV. ADMINISTRATION OF THE ZONING ORDINANCE; a. The Commissioner of Buildings; b. The Board of Zoning Appeals or Adjustment; c. Amending the Zoning Map or Ordinance; and d. Enforcement of the Zoning Ordinance.

(933) COMPARATIVE DIGEST OF MUNICIPAL AND COUNTY ZONING ENABLING STATUTES (For Reference in Community Planning, Housing, Slum Clearance, and Urban Redevelopment Programs) As of October 31, 1952. Prepared by the Housing and Home Finance Agency, Division of Law, Washington, D.C.; published by the Housing and Home Finance Agency, Division of Law, Washington, D. C. in 1953.—70 pages, plus xvi; price: 60¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Folding Chart: "Comparative Analysis of Municipal Zoning Enabling Statutes"; 2. Introduction; 3. Explanatory Notes to Chart on Municipal Zoning Law Provisions; 4. Explanatory Notes to Chart on County Zoning Law Provisions; 5. A Typical Zoning Enabling Statute; (a) The West Virginia zoning enabling statute; (b) Power of municipalities to zone extraterritorially; (c) Zoning of metropolitan areas containing several local governments; (d) Elimination of nonconforming uses; (e) zoning commission authorized to adopt zoning ordinance; (f) Amendments; (g) Combined general statute for municipalities and counties; 6. Discussion and Cases Regarding Certain Particularly Important Zoning Problems; (a) Power of administrative body to enact zoning ordinance; (b) Power of municipality to zone extraterritorially; (c) Amendment to Ordinance changing zone restricted to single family dwellings to allow construction of apartments; (d) Minimum floor area and cubic footage requirements; (e) Requirements for off-street parking and loading facilities; (f) Requirement that nonconforming uses be terminated after a fixed period; (g) effect of zoning ordinance on private covenant requiring a more restrictive use; (h) Application of local zoning regulations to projects constructed by the Federal Government; 7. Community Zoning Statutes of the States and Territories.

ABSTRACT. This comparative digest is the second of a series of legal studies undertaken by the Division of Law, Office of the Administrator, Housing and Home Finance Agency. These studies are designed to make readily available to interested public authorities and private persons, and to the home building industry, certain state statutory materials that determine to a considerable extent the character of community slum clearance, urban redevelopment, and housing developments. Pages i–xvi provide a general discussion of the subject. The remaining 70 pages provide a state-by-state summary. Similar information is also given for Alaska, Guam, Hawaii, and Puerto Rico.

(d) Subdivision Regulations

(941) "URBAN LAND POLICIES"—Chapter 14 (pages 406-433) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949. —533 pages; price: $6.50

This chapter considers: 1. Nature of Social Control; 2. City Planning; 3. The Planning Process; 4. Zoning; 5. Subdivision Control; 6. Taxation of Real Property; 7. Incidence of Taxation; 8. Tax Administration; 9. Deficiencies of the Property Tax; 10. Directing Investment through Tax Policy; 11. Urban Redevelopment; 12. Inhibitors of Succession; 13. Resistance of Net Revenue to Decline; 14. Withholding for a Future Higher Use; 15. Diversity in Economic Expectancy; 16. Inefficient City Structure; and 17. Redevelopment Legislation.

(942) SUGGESTED LAND SUBDIVISION REGULATIONS — Prepared in the Housing and Home Finance Agency by the Division of Housing Research and the Community Planning Branch of the Division of Slum Clearance and Urban Redevelopment, Office of the Administrator, and the Land Planning Section, Federal Housing Administration. (For the names of individual contributors, see under *Abstract*, below; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., February 1952. —65 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Purposes and Objectives of Subdivision Regulations; 2. Suggested Subdivision Regulations; (a) Definitions; (b) Procedures; (c) Design Standards; (d) Required Improvements; (e) Plats and Data; (f) Variances; 3. Appendices; (a) FHA Data Sheets on Subdivision Exhibits; (b) FHA Data Sheets on Protective Covenants; (c) Bibliography; and (d) Listing of HHFA and Constituent Agencies, and Local FHA Insuring Offices.

ABSTRACT. A manual prepared to assist those charged with community planning and building, based largely on the studies, experiences, and considered judgment of authorities in this field. The work is illustrated with sketches of suggested subdivision layouts, and includes sections on procedures (preapplication, conditional approval of preliminary plat, and approval of final plat), etc. It also discusses the advantages of sound subdivision regulations for home owners, land developers, investors, and local government interests, such as planning, police, fire, engineering, school, and park officials. The regulations suggested apply not only to the more customary subdivisions providing lots for individual dwellings, but also reflect full recognition of the important growing trend towards large-scale development such as complete residential communities, integrated neighborhood units, or new towns involving special problems of community planning. Assistance in the preparation of the text was given by Andre M. Faure and Byron R. Hanke of the Federal Housing Administration, and by Carl Feiss, Richard Ives, Harold Merrill, Helen Monchow and John R. Searles, Jr., of the Division of Slum Clearance and Urban Redevelopment. The American Institute of Architects, the American Society of Planning Officials, the American Institute of Planners, the Urban Land Institute, the National Safety Council, the National Association of Home Builders, and The Chamber of Commerce of the United States, were among the organizations which helpfully reviewed and criticized the preliminary draft of the text.

(943) SUBDIVISION REGULATIONS; AN ANALYSIS OF LAND SUBDIVISION CONTROL PRACTICES by Harold W. Lautner; published by Public Administration Service, Chicago, Illinois, 1941.—346 pages; price: $3.75.

Includes chapters on: 1. General Considerations; 2. Procedure for Securing Plat Approval; 3. General Subdivision Standards and Design Requirements; 4. Requirements on Plats; 5. Requirements on Grading Plans and Profiles; and 6. Improvements Required in the Subdivision. The work also includes many tables, figures and references.

(944) "LAND SUBDIVISION REGULATION"—Chapter 12 (pages 248-267) of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: $7.50.

This chapter considers: 1. What is Land Subdivision Regulation?; 2. Necessity and Benefits of Land Subdivision Regulation; 3. Legislative Authority for Land Subdivision Regulation; 4. Regulations for Controlling Land Subdivision; and 5. Obtaining Official Approval of Subdivision Plats.

NOTICE

The Index to this Bibliography is still in process of preparation by the National Association of Home Builders. American Builder *will publish the index as soon as possible after its completion, thereby making available the first comprehensive listing of reference material for all phases of home building.*

PART IX

MERCHANDISING

(a) Real Estate Sales Principles

(961) "FUNCTIONS AND RELATIONSHIPS OF THE REAL ESTATE SALESMAN"—Chapter 7 (pages 63-68) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Selection of Company; 2. Trade Association Membership; 3. Terms of Relationship; 4. Employer's Responsibility; 5. Remuneration; 6. Fee for Listings; 7. Written Contract; 8. Company Rules; 9. Disputes; 10. Obtaining Listings; 11. Salesman-Buyer Relationship; 12. Financing; 13. Explain Sales Expenses; 14 Know the Answers!; and 15. Personal Qualities.

This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(962) "THE SALE OF REAL ESTATE"—Chapter XVII (pages 304-321) of REAL ESTATE ANALYSIS; edited by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Area of Study; 2. Special Characteristics of Real Estate Sales; 3. The Three Needs; 4. The Need for Confidence; 5. The Need for Information; 6. Type of Information Needed; 7. Low- and High-Pressure Selling; 8. The Need for Advice; 9. Buyers' and Sellers' Markets; 10. Agencies of Sale; 11. Methods of Lighting; 12. Methods of Sale; 13. Auctioning of Real Estate; 14. Trades; 15. Schedule of Commissions; 16. The Sales Contract; 17. Closing the Sale; 18. The Importance of Financing; and 19. The Summary View.

(963) PRACTICES AND PRECEPTS OF MARKETING PREFABRICATED HOUSES by Glenn H. Beyer and Theodore R. Yantis, Cornell University, Ithaca, New York; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1952.—58 pages; price: 35¢. Order copies from Superintendent of Documents, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Section I. Existing Marketing Practices; (a) Description of retail outlets; (i) Types of retail outlets; (ii) Business backgrounds of dealers; (iii) Reasons for becoming a dealer; (iv) Size of dealer operations; (v) Age of dealerships; (vi) Size and location of cities served; (b) Retailer (Dealer)-Customer Relations; (i) Classification of customers; (ii) Sales practices of dealers; (iii) The finance problem; (iv) Erection practices of dealers; (v) Service function of dealers; (c) General problems of the Retailer (Dealer); (i) Land development; (ii) Building codes; (iii) FHA minimum standards; (iv) Labor; (d) Retailer (Dealer)-Manufacturer Relations; (i) Degree of prefabrication; (ii) Degree of Standardization of basic house; (iii) Channels of distribution; (iv) Sales organizations of manufacturers; (v) Selection of dealers; (vi) Dealer franchises; (vii) Controls exercised by manufacturers; (viii) Services furnished dealers by manufacturers; (ix) Transportation and storage; (x) Damage and shortage; (xi) Pricing policies of manufacturers; 3. Section II. Precepts for Marketing Prefabricated Houses; (a) Analysis of the market; (b) The product in relation to the market; (c) The product in relation to channels of distribution; (d) Sales policies; (i) Sales organization; (ii) Management of selling; (iii) Advertising; (iv) Control of sales program; (v) Pricing; (e) Finance policy; (f) Erection and service policies; (g) Conclusion; (4) Special Supplement: Defense and War Implications on Marketing Prefabricated Houses; (a) Analysis of the market; (b) The product in relation to the market; (c) The product in relation to channels of distribution; (d) Sales policies; (e) Finance policy; (f) Erection and service policies; (g) Conclusion; 5. Appendix; (a) Need for further research; (b) Methodology; (c) Glossary; (d) List of manufacturers interviewed; and (e) List of dealers interviewed.

ABSTRACT. This book presents an analysis of present marketing practices in the prefabricated housing field based upon intreviews with more than 40 manufacturers and 120 dealers. Types of retail outlets in use; the dealers' background, organization, and sales volume; dealer-manufacturer and dealer-customer relations; financing difficulties; and erection and service practices are considered. Following the analysis of present practices, the second section of the book sets forth a series of precepts for the effective marketing of prefabricated houses. It includes analysis of the market for prefabricated houses, proper integration of the houses in that market, sales and advertising policies, financing, and the formulation of satisfactory erection and service policies. A special supplement presents briefly the implication of defense or war conditions upon the marketing of prefabricated houses. The study was prepared by Cornell University's Housing Research Center under a research contract with the Division of Housing Research, Housing and Home Finance Agency. The authors were assisted in the research work by Professor James W. Partner and others. Valuable assistance was also given by Harry H. Steidle, manager of the Prefabricated Home Manufacturers' Institute, by Foster Gunnison, founder of Gunnison Homes, Inc., and by Frank P. Flynn, Jr., executive vice president of the National Homes Acceptance Corporation. Under the general direction of Joseph H. Orendorff, Director of HHFA'S Division of Housing Research, the project was supervised by E. Everett Ashley, 3rd, Chief of HHFA's Housing Economics Branch.

(b) Advertising

(981) "PUBLICITY AND ADVERTISING" (in Subdividing)—Chapter 31 (pages 300-310) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael, published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: $5.75

This chapter considers: 1. Necessity for Advertising; 2. Kinds of Advertising Media; 3. Comparison of Results; 4. Selecting the Newspaper; 5. Cost of Advertising; 6. Handling Telephone Responses; 7. Truth in Advertisements; 8. Descriptive Booklets; 9. Billboards; 10. Advertising Novelties; 11. News Stories; 12. Institutional Advertising; 13. Slogans; 14. Ground-Floor Office Location; and 15. Rising Costs of Advertising.

(982) "INSTITUTIONAL ADVERTISING, PUBLICITY"—Chapter 1 (pages 325—338) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Types of Institutional Advertising; 2. Keeping the Firm's Name Before the Public; 3. Institutional Advertising to Create Good-Will; 4. Institutional Advertising to Make Services Known; 5. Cooperative Institutional Advertising of Services; 6. Institutional Advertising to Boost the Community; 7. Real Estate Board Advertising; 8. Institutional Advertising to Educate in a Particular Phase of Real Estate; 9. Institutional Advertising of the Entire Industry; 10. Kansas City Real Estate Board's Double-Barreled Campaign; 11. News Publicity as Institutional Advertising; and 12. Publicity Through Writing and Speaking.

(983) "CLASSIFIED ADVERTISING" Chapter 2 (pages 339-351) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y. 1948.—784 pages; price: $10.00

This chapter considers: 1. Why some Classified Advertising Fails; 2. The Desirability of Property as a Factor in Classified Ads; 3. Price in Relation to Classified Advertising; 4. Effect of Unfavorable Market; 5. Well-Prepared Copy; 6. Examination of Property Prior to Advertising; 7. Analysis of Prospects; 8. What Point to Stress; 9. Writing the Classified Copy; 10. How to Attract Attention; 11. Making Headlines Specific; 12. How to Create Desire; 13. How to Convince the Reader; 14. How to Cause Action to be Taken; 15. Classified Advertisements Using Display Idiom; 16. Newspaper Limitations Upon Set-up of Classified Ads; 17. Estimating Space of Classified Ads; 18. Layout of the Classified Advertisement; 19. Distinction Through White Space; 20. Selection of the Newspaper; 21. Timing the Classified Advertisement; 22. Repetition of Advertisements; and 23. Checking Results of Classified Advertising.

(984) "DISPLAY ADVERTISING"—Chapter 3 (pages 352—360) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Advertising Agencies; 2. Buying Space; 3. Rates; 4. Special Rates; Preferred Positions; 5. Size of Display and its Attention-Getting Power; 6. Illustrations; 7. Suggestions for Illustrating; 8. Typography; 9. Preparation of Display Advertising; 10. Writing Copy; 11. How to Attain a Good Arrangement; 12. What is a "Layout"?; 13. Getting Ideas for Display Advertising.

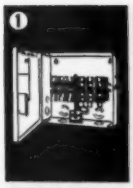
TRUMBULL SERVICE ENTRANCE EQUIPMENT PUTS GENERAL ELECTRIC ENGINEERING TO WORK FOR YOU

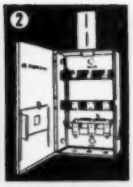
You uphold your own reputation for quality work when you install Trumbull Service Entrance Equipment. You assure yourself of the fast, easy installation that protects your profit margin.

Worth more? . . . Yes, but Trumbull Service Entrance Equipment is *competitively priced.*

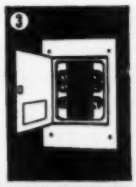
Your nearby Trumbull Distributor can make quick delivery. For descriptive bulletin on Trumbull Service Entrance Equipment write Trumbull Components Department, General Electric Company, Plainville, Conn.

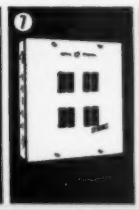
GENERAL ELECTRIC

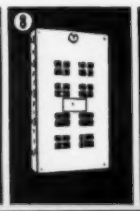


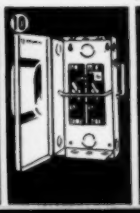


1. Meter Service Entrance Switch. 2. Entrance and Transformer Switch. 3. Fuse Puller Switch for service entrance and branch circuit protection. 4. Fuse Puller Switch with raintight enclosure. 5. Residence Panel, two to twelve circuits. 6. Type NTPS Switch and Fuse Panel, six or twelve circuits. 7. Trumbullite Circuit Breaker Load Center, two to twenty circuits. 8. 16-Circuit Split Bus Load Center provides four 2-pole and eight single-pole circuits for the large fully-equipped home. 9. Load Center with wired-in Four Point Meter Socket in raintight enclosure. 10. General Use Safety Switch, 30-200 amps. 11. General Use Safety Switch with raintight cover.









(985) "DIRECT MAIL ADVERTISING"—Chapter 4 (pages 361-377) of Section Eight; Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

Includes a consideration of: 1. Building up a Mailing List; 2. Forms of Direct-Mail Advertising; 3. Form Letters; 4. Example of Campaign with Single Sales Letter and Sales Follow-Up; 5. Four-page Letters; 6. Leaflets; 7. Folders; 8. Circulars; 9. Booklets; 10. Brochures; 11. Mailing Cards; 12. Post Cards; 13. House Organs; 14. Maps; 15. Single-page Announcements; 16. Customers' Cards; 17. Mimeographed Floor Plans; 18. Pictorial Bulletins; 19. Blotters; 20. Printing Media for Direct Mail; 21. Preparation of Direct Mail Advertising; 22. Typography and Illustration; 23. Dummying the Advertisement; 24. Testing Direct Mail; and 25. The Return Card.

(986) "BILLBOARDS, SIGNS, AND OTHER SPECIAL ADVERTISING FORMS"—Chapter 5 (pages 378-388) in Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Billboards; 2. Signs; 3. What to Place on Signs; 4. Car Cards; 5. Window Displays; 6. Testing the Window Display; 7. Radio as a Medium; 8. Novelties; 9. Advertising Value of the Office; 10. Office Windows; 11. Business Cards; 12. Letterheads; 13. Combined Institutional and Specific Property by Direct Mail; and 14. Bibliography.

(c) Selling Techniques

(1001) "OBTAINING PROSPECTS"—Chapter 3 (pages 43–46) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Types of Prospects; 2. Cataloguing Prospects and Properties; 3. Sources of Prospects' Names; 4. The Property Itself and the Owner; 5. Previous Unsatisfied Prospects; 6. Contact with the Market; 7. Lists of Names; 8. Newspaper Stories; 9. Personal Contacts; 10. Advertising; and 11. House-to-Canvasses.
This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on materials in the Prentice-Hall Real Estate Service.

(1002) "SHOWING PROPERTIES"—Chapter 4 (pages 47-50) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Selection of Method for showing; 2. Terms of Purchase; 3. Planning the Showing; 4. Preparing the Property for Showing; 5. Preparing the Broker; and 6. Objections.
This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1003) "SELLING TECHNIQUES" (in Subdividing)—Chapter 32 (pages 311-322) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949. —394 pages; price: $5.75

This chapter considers: 1. Introduction; 2. Preparation; 3. Approach; 4. Attention; 5. Interest; 6. Desire; 7. Action; 8. Signing the Contract; 9. Helpful Publicity Material; 10. Sources for New Prospects; 11. Classification of Prospects; 12. Time-Saving Rules for Salesmen; and 13. Conclusion.

(1004) "SALES APPROACHES FOR VARIOUS TYPES OF PROPERTY"—Chapter 5 (pages 51–58) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Sale of Homes; 2. Sale of Home Sites; 3. Sale of Industrial Property; 4. Selling Business Properties; 5. Selling Farms; and 6. Check List of Facts for Selling Farms.
This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1005) "CLOSING THE DEAL"—Chapter 6 (pages 59-62) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

This chapter considers: 1. Legal Advice; 2. Transaction Forms; 3. A Written Proposition from the Buyer; 4. Seller's Acceptance; 5. Closing Statements; 6. The Settlement Statement; and 7. Legal Aspects.
This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1006) "CONTRACTS"—Chapter XI (pages 191-205) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Includes a consideration of: 1. Implied and Express Contracts; 2. Statute of Frauds; 3. Provisions of Options; 4. Receipts and Binders; 5. Form of Sales Contracts; 6. Construction of Contracts; 7. Rules of Construction; 8. Errors and Omissions; 9. Status of Parties; 10. Consideration; 11. Covenants; 12. Express Covenants of the Vendor; 13. Breach by the Vendor; 14. Express Covenants of the Purchaser; 15. Mistake; 16. Misrepresentation; 17. The Tests of Misrepresentation; 18. Legal Remedies; 19. Equitable Remedies; 20. Assignments; 21. Termination; 22. Contract for Deed; 23. Occasions for Use of Contract for Deed; 24. Express Covenants of the Buyer and Seller; and 25. Recording of Contracts.

PART X

MAINTENANCE

(1031) "RAT CONTROL IN EXISTING DWELLING UNITS" by E. J. Herringer; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 1-9; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

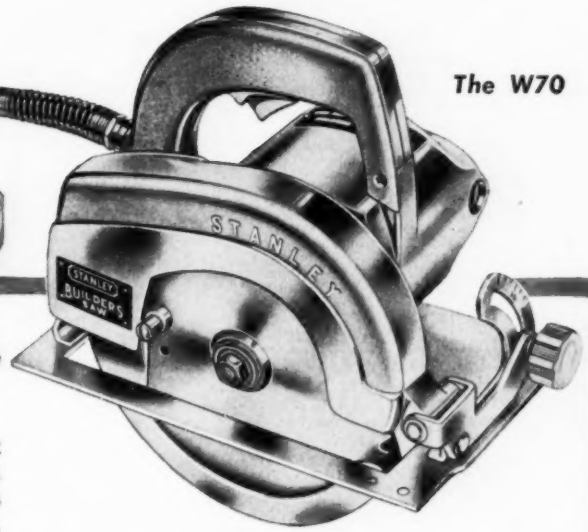
Includes a consideration of: 1. Rat Damage; 2. Habits and Characteristics of the Rat; 3. Organization of the Anti-Rat Campaign; 4. Sanitation in Rat-Control Measures; 5. Ratproofing the Structure; 6. Rat Eradication Within Ratproofed Buildings; 7. Conclusion; and 8. References.
ABSTRACT. This article is concerned chiefly with the so-called common rats which often inhabit homes and neighborhoods and cause untold damage and spread disease. They are known as domestic rats despite the fact that they are wild creatures and often attack man. Article is illustrated by four photographs and several diagrams.

(1041) THE COMPLETE BOOK OF HOME MODERNIZING by Samuel Paul and Robert B. Stone, with illustrations by George Cooper Rudolph; published by H. S. Stuttman Co., New York 10, N. Y., 1953.—383 pages; price: $5.95. Order copies from Garden City Books, Garden City, N. Y.

Includes a consideration of: 1. The "Why" and "How" of Modernizing; 2. Modernizing for living and dining; 3. Modernizing the Bedroom; 4. Modernizing Walls, Ceilings and Floors; 5. Modernizing the Kitchen; 6. Modernizing the Bathroom; 7. More House in Cellar and Attic; 8. Planned Storage Space; 9. Light Conditioning; 10. Heating and Air-Conditioning; 11. Modernizing the Outside; 12. Modernizing All Around; 13. Preparing Specifications; 14. Cost Estimating Methods; and 15. Glossary of Building Terms.
ABSTRACT. This is a book of how-to-do-it guidance for builders and home owners faced with the problem of modernizing the 43 million American homes which are now at least twenty years old. Methods, plans and specifications are given on such problems as how to add a bathroom, enclose a porch, finish an attic, create more closet space, install proper illumination, build breezeways and play yards, etc. Typical sub-headings include: how to finance modernizing work; placing your television set; fireplaces; how to plan color schemes; modern compact laundry; the powder room; how to dampproof the basement; adding dormer windows; safe stairways; indirect lighting techniques; rewiring; the thermostat and weather eye; insulated siding; termite control; the carport; garden pools and swimming pools; and barbecues.

A NEW 7" STANLEY® BUILDERS SAW

Here's a new Stanley builders saw that **cuts 2 x 4's at 45°** and only weighs 12 lbs. Its 7" blade takes a deep 2⅜" bite at 90° and bevels at any angle up to 45°. Furnished with metal carrying case.



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CHECK THESE OUTSTANDING STANLEY FEATURES

1 Patented Stanley blade flanges that protect the motor from shock loads. If you hit a nail or other obstruction, the blade stops but the motor turns over until switch off. There's never any kickback or motor burn out.

2 Cutaway window lets you see what you're doing as you do it. Can keep your eye on the line of cut, whether left- or right-handed.

3 An automatic telescoping safety guard with convenient finger knob control. Positive safety at all times — your hands are never near the cutting edge even when pulling back the guard.

OTHER STANLEY SAW ADVANTAGES

Housing — Fully polished die cast aluminum alloy

Gears — Alloy steel

Bearings — Full anti-friction ball and needle

Switch — Double pole, momentary contact

Handle — Pebbled, non-slip surface, "multi-grip"

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Accessories — Ripping guide, extra blades and extension cords

Service — There is a Stanley Electric Tool Service Station near you, no matter where you are located. Consult your classified telephone directory.

SEE THIS NEW STANLEY SAW
Try the heft and cut of it. Your Stanley distributor has them now. For further information write Stanley Electric Tools 400 Myrtle Street, New Britain, Conn.

STANLEY | STANLEY®

ELECTRIC TOOLS

HARDWARE TOOLS
STEEL STRAPPING STEEL

PART XI

BOOKS COVERING HOUSING in a GENERAL WAY

(a) The Current Housing Scene

(1051) AMERICAN HOUSING; PROBLEMS AND PROSPECTS: The Factual Findings: By Miles L. Colean; The Program: By the Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: $3.00

Includes chapters on: A. THE PRODUCTION OF HOUSING; 1. Land for Housing; 2. The House as an Industrial Product; 3. The Business of Housebuilding; 4. The Management of the Housebuilding Industry; 5. Industrial Trends in Housebuilding; 6. Problems in Industrial Change; B. THE MARKETING OF HOUSING; 7. The Behavior of the Housing Market; 8. The Mechanisms of the Housing Market; 9. Housing Investment and Finance; 10. Government and the Housing Market; 11. Removing the Obstacles; C. THE PROGRAM; 12. Conclusions and Recommendations of the Housing Committee.
The work also includes, as Appendices A through H (pages 345-466), 61 informative tables, a bibliography, and a list of figures.

(1052) HOUSING . . . USA! —Published by The National Association of Home Builders, Washington, D. C. Not dated, but published in September 1952.—36 pages; price: 10¢. Free to members of NAHB.

Includes chapters on: 1. Housing—The Main Issues; 2. The National Housing Supply; 3. The Importance of Mortgage Credit; 4. Housing the Lower Income Group; 5. Slum Clearance and Rehabilitation; 6. The Organization of Government Housing Agencies; 7. The Nature of the Home Building Industry; 8. Housing Cooperatives; 9. Taxes; and 10. Housing in the Defense Emergency.
NOTE: For a greatly expanded version of this work, now in preparation and tentatively scheduled for publication before the summer of 1953, see the next item immediately below.

(1053) HOUSING . . . U.S.A.!—Edited by editorial board of all past presidents of the National Association of Home Builders: W. P. "Bill" Atkinson, David D. Bohannon, Milton J. Brock, Alan E. Brockbank, Fritz B. Burns, Edward R. Carr, Thomas P. Coogan, Harry J. Durbin, Robert P. Gerholz, Rodney M. Lockwood, Joseph E. Merrion, Joseph Meyerhoff, George F. Nixon and Emanuel M. Spiegel; published for NAHB by the Simmons-Boardman Publishing Corporations, Emmett Street, Bristol, Conn. (publishers of AMERICAN BUILDER magazine) in January, 1954.—224 pages; price: $5.00

This work, an expansion of the NAHB booklet bearing the same title (item No. 1052) includes chapters on the following topics: Mortgage Credit—Lifeblood of Home Building; Inventory of America's Housing; A Million Homes Annually; Research Builds Better Homes; Putting Public Relations to Work; The Richest Asset—a Home; Merchandising Magicians; What's New in the New Home; They Build Cities; Federal Agencies—and Housing; Government's Role in Housing; Cooperative Housing; Housing for the Low Income Family; The Attack Against Blight and Slums; The Real Story Behind Public Housing; Outdated Codes: Barrier to Progress; Housing in a Defense Emergency; Manpower and Housing; Housing—Inflationary?; Hidden Taxes Cost Plenty; Lessons from Europe.

(1054) THE REAL ESTATE HANDBOOK—Edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: $10.00

Includes a consideration of: 1. Operating a Real Estate Business; 2. Brokerage; 3. Appraising; 4. Property Management; 5. Land Development and Home Building; 6. Farm Management and Appraising; 7. Financing; 8. Advertising; 9. Brokers' License Laws and Code of Ethics; 10. Titles, Legal Descriptions, and Surveys; 11. Insurance; 12. Ad Valorem Taxation of Real Estate; 13. Trade Associations; 14. Transaction Forms; 15. Charts and Tables; and 16. Bibliography, Educational Directory, Vocabulary.
Each of the above sections is divided into several chapters, each dealing in detail with a particular activity or problem. The work contains many illustrations, diagrams, copies of forms, etc.

(1055) PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weimer and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: $5.00

The several Parts and Chapters of this work cover the following points: I. Real Estate Values (Introduction); 1. The Study of Real Estate; 2. Real Estate Value (Legal and Physical Factors); 3. Value Characteristics of Property Rights; 4. Value Characteristics of Land and Buildings (Location Factors); 5. Location and Real Estate Values; 6. The Future Growth and Structure of Cities; 7. The Dynamics of Neighborhoods and Districts (Market and Cycle Forces); 8. The Real Estate Market; 9. Real Estate Market Analysis (Regulations); 10. Regulations and Real Estate Values (Review); 11. Valuation Problems as a Review of Basic Principles; II. REAL ESTATE ADMINISTRATION; (Introduction); 12. The Functions and Organization of the Real Estate Business (Development); 13. Subdividing; 14. Building (Financing); 15. Financing Instruments and Processes; 16. Funds and Risks (Marketing); 17. Brokerage; 18. Property Management; 19. Advertising and Public Relations (Summary; Current Problems and Possible Solutions); 20. Toward Improved Real Estate Administration; and Appendices.

(1056) URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: $6.50

Includes a consideration of: 1. The Institutional Aspects of Real Property; 2. The Economics of Urbanization; 3. The City as a Social Complex; 4. Demand for Housing; 5. Demand for Nonresidential Space; 6. The Construction Industry; 7. The Building Process; 8. Urban Land Credit; 9. The Home Mortgage Market; 10. Urban Land Market Functions and Organization; 11. The Housing Market; 12. Land Income and Value; 13. City Growth and Structure; 14. Urban Land Policies; 15. The Economics of Housing Policy; and 16. The Economics of Housing Policy (Continued).

(1057) REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: $6.00

Contains Parts and Chapters on: PART I. REAL ESTATE AND THE ECONOMY; 1. Property Rights and the Social Order; 2. Real Estate and the National Economy; 3. Real Estate and the City; 4. Land and its Development; 5. Building and its Problems; PART II. LEGAL PROCESSES AND INSTRUMENTS; 6. Property Interests and Titles; 7. Title by Descent and Will; 8. Deeds; 9. Mortgages; 10. Other Liens; 11. Contracts; 12. Leases; PART III. THE REAL ESTATE MARKET; 13. The Nature of the Real Estate Market; 14. Price Fluctuations and Real Estate Cycles; 15. Value of Real Estate; 16. Real Estate Appraisals; 17. The Sale of Real Estate; 18. Rental and Management; PART IV. THE FINANCING OF REAL ESTATE; 19. Real Estate Financing and Risks; 20. Loans and Terms; 21. Sources of Funds—Primary Markets; 22. Sources of Funds—Secondary Markets; 23. Loan Servicing, Default, and Foreclosure; 24. Taxes and Assessments; 25. Eminent Domain and Condemnation; 26. Planning and Zoning; 27. Public Housing; 28. Veterans' Housing; 29. Public Policy and Private Interest.

(1058) HOW BIG IS THE HOUSING JOB? by E. Everett Ashley, 3d.; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., October 1951.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. What is an estimate of housing needs?; 2. Why do we make estimates of housing needs?; 3. Are housing needs estimates used by local communities?; 4. Who makes estimates of housing needs?; 5. Do the estimates of need all agree as to the size of the problem?; 6. How do you make an estimate of housing needs?; 7. How do housing needs differ from housing demand?; 8. Where do the figures for a housing needs estimate come from?; 9. When and where has the Census published figures on the housing supply?; 10. Why are sample surveys used?; 11. What is a sample survey?; 12. What limitations are there to housing sample surveys?; 13. What is the effective housing supply?; 14. How many houses will we need in 1960?; 15. What will adding 6,000,000 houses to our supply do?; 16. What are substandard dwellings?; 17. What must be done about the substandard houses?; 18. What other factors affect housing needs?; 19. What about the effects of age upon our good housing?; 20. How much does this replacement or rehabilitation job amount to?; 21. How big is the whole job?; 22. Why is the need for 1950-60 nearly as great as it was previously estimated to be for 1949-1960?; 23. What about the farm housing problem?; 24. Hasn't the housing need been largely met by the improvement in housing conditions since the end of World War II?; 25. Do all the houses called for in a needs estimate have to be built new?; 26. Do these estimates take into account housing needs of defense workers?; 27. Can we still aim at a target of 14½ million non-farm units in the next decade in view of the international situation?; 28. What is the present target for home builders?; 29. Does this mean that the peace-time objective "a decent home and a suitable living environment for every American family" has been abandoned?;

— for you
VALUE *— for your customers*
when you build
a better home with

allwood*

HARDBOARD

THE HOT PRESSED DOUGLAS FIR HARDBOARD OF A MILLION USES . . .

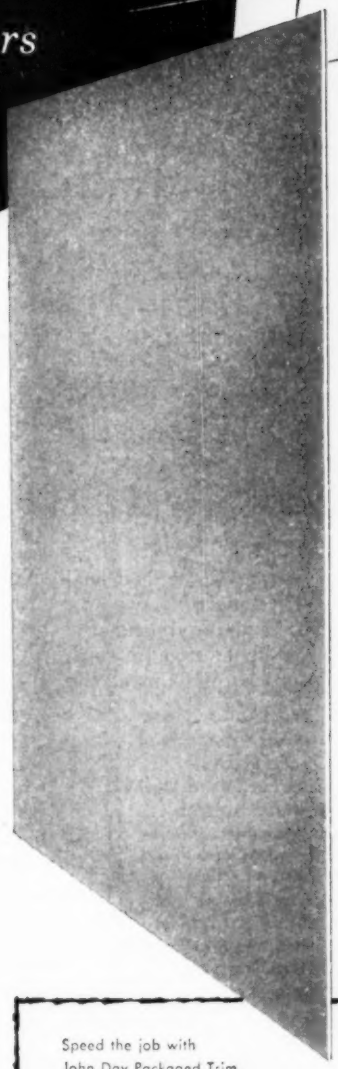
Build Allwood Hardboard into your next job. Be convinced of the economy, convenience and versatility of this superior building material. Cut costs on walls, ceilings, underlayment, soffits, siding and outbuilding construction.

Allwood Hardboard is the ideal facing material for concrete forms, too. Use it over and over again for big savings! Check with your dealer TODAY. If he does not stock Allwood Hardboard, send us his name. Our jobber will call on him.

Hard, Smooth, Durable —
Allwood resists abrasion and moisture, won't delaminate. Maintains dimensional stability.

Won't Shatter, Split or Crack —
Grainless — equally strong in both lateral dimensions. Nail it — saw it — work with ordinary woodworking tools. It works like wood because it *is* wood.

Finishes Easily —
Hard, smooth surface speeds brushwork, makes finish look better. Won't chip or peel off.



Speed the job with
John Day Packaged Trim
for doors and windows. Grade A Ponderosa Pine delivered factory-fresh. See your dealer, or write for complete information.

Oregon Lumber Company
Hardboard Division
DEE, OREGON

*T.M. Oregon Lumber Co.

Richly right for the **"Ranger"**

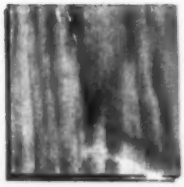
...that's the ***beauty*** *of* ***Higgins Block*** INC.

These two views of the National Homes 1954 "Ranger" show how Higgins Block can be used to add the extra sales appeal of a rich, lustrous, quality appearance. Look at all the other selling features, too:

- **9" x 9" net face hardwood blocks —easy to install**
- **3-ply cross-grain construction— when properly installed will not warp, buckle, cup or crack**
- **Selected oak face—comes with final finish**
- **Pressure bonded with marine-type glue—water-repellent and climate-proof**
- **Deep-impregnated with famous "Penta"— rot-proof, termite-proof**
- **Grooved back anchors into adhesive—quiet and comfortable**
- **Can be laid without special preparation directly on concrete slab—ideal for radiant heat**
- **Blocks fit flush—without large, visible V-grooves**

Higgins INC. **BONDED HARDWOOD BLOCK FLOORING**

THE WORLD-FAMOUS BOAT BUILDERS



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Gentlemen: Please send sample block and literature to

Firm Name.....

Address.....

City..... Zone..... State.....

ABSTRACT. A booklet which explains the sources and methods utilized in the Housing and Home Finance Agency's computations of the size and scope of the job which confronts this country during the next decade, if it is to achieve the national housing goal. It brings up to date in non-technical language much of the material included in a pamphlet of this same title published before the Korean hostilities and the new national emergency. The final sections of this revised publication cover the adjustment of current housing goals to mesh with the needs of defense mobilization. The emergency, affecting our immediate capacity to meet the Nation's long-range housing needs, does not, of course, reduce the needs themselves. This means that either the Nation's productive capacity must be increased, as it affects housing, or the rate of progress in meeting United States housing needs must be reduced. This booklet concentrates on defining the needs, revising the previous publication with new data from the 1950 Census of Housing, and adds new text to answer the continuing flow of inquiries on the subject. There are several tables showing the quantity of non-farm dwelling units, and their condition, currently in use, and the remaining gap which must be filled to assure an adequate housing supply.

(1059) THE HOUSING SITUATION —1950—Prepared by Arthur C. Gernand under the direction of E. Everett Ashley, 3d.; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., February 1951.—30 pages; price: Not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Summary; 2. The Housing Census of 1950; Size of Inventory; 3. Condition and Plumbing Facilities; 4. Vacancy Rate; 5. Overcrowding; 6. Size of Household; 7. Home Ownership; 8. Rent; 9. Value; 10. Size of Dwelling Units; 11. Type of Structure; 12. Appendix: Sample Tabulation of the Housing Census, April 1950 (with 15 tables); and 13. Definition of Terms.

ABSTRACT. This is an analysis of the preliminary results for non-farm areas of the 1950 Housing Census. The analysis consists largely of comparisons between urban and rural non-farm areas, between non-whites and all races, and of changes that have occurred in the size and quality of the housing supply since 1940.

(1060) THE 1950 HOUSING SITUATION IN CHARTS by Arthur C. Gernand and staff; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., June 1952.—35 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Foreword; 2. Housing Inventory at Mid-century; 3. Long-Term Trend—Farm and Non-Farm Homes; 4. How Good is our Non-farm Housing Supply? 5. The Improvement in our Housing During the Last Decade; 6. What Remains to be Done?; 7. Homes Still Lacking Private Toilet or Bath; 8. Few Effective Vacancies in 1950; 9. Declining Trend in Size of Household; 10. Smaller Households Show Greatest Gains; 11. Little Change in Average Size of Homes; 12. Crowding Decreases, But Only Relatively; 13. Where is Overcrowding Most Severe?; 14. Home Owners Exceed Renters for First Time; 15. Changes in Home Ownership, 1940-1950; 16. Rents More Than Half Again as High as in 1940; 17. Home Values at Peak Levels in 1950; 18. No Change in the Ratio of Homes Mortgaged; and 19. Appendix.

ABSTRACT. This is a revised edition of the publication released in October 1951, containing four new pages of text together with two new charts. The Housing Census of 1950 was accomplished by the Bureau of the Census, U. S. Department of Commerce. Preliminary results have been released by the Bureau and an analysis of these results has been published by the Housing and Home Finance Agency in a booklet entitled, *The Housing Situation, 1950*, included as item (1059) of the present reading list. The present booklet has been prepared with the accent on graphic presentation. Pri-

marily it is designed for those interested in the national housing situation but who are not seeking detailed technical information. It was prepared within HHFA's Division of Housing Research under the supervision of Mr. E. Everett Ashley, 3rd, Chief, Housing Economics Branch.

(b) Housing Special-Interest Groups

(1091) HOUSING COOPERATIVES IN THE UNITED STATES, 1949 AND 1950—Prepared by the Bureau of Labor Statistics, U. S. Department of Labor, with the financial assistance of the Division of Housing Research, Housing and Home Finance Agency. (For the names of the contributing authors see below, under "Abstract."); published simultaneously by the Housing and Home Finance Agency, Division of Housing Research, as its "Housing Research Paper No. 24," and by the U. S. Department of Labor, Bureau of Labor Statistics, as its "Bulletin No. 1093; Washington, D. C., 1951, but published in March 1953.—133 pages; price: 65¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Summary; (a) Definition of terms; (b) Scope of study; (c) Summary of findings; (d) Conclusions; 2. Characteristics of Housing Associations; (a) Geographic distribution; (b) Membership and income; (c) Age of associations; (d) Law of incorporation; (e) Sponsorship of associations; (f) Stages at which cooperation was used; (g) Membership; (i) Membership requirements; (ii) Voting; (iii) Membership make-up; (iv) Sources of new members; (v) Family data; 3. The Projects; (a) Land purchase and characteristics; (b) Project planning; (c) Membership participation in planning; (d) Size of project; (e) Size of dwellings; (f) Contracting by association; 4. Cost and Finances; (a) Cost to association; (i) Cost of land and its development; (ii) Cost of project, by item of expense; (iii) Total investment in project; (iv) Contract provisions; (v) Self-help by members; (vi) Other sources of savings; (b) Financing of projects; (i) sources of funds; (ii) Mortgage indebtedness; (iii) Mortgage insurance; (iv) Financial status; (c) Cost to member; (i) Entrance charges; (ii) Price of unit; (iii) Member's down payment; (iv) Carrying cost to member; (v) Additional assessments; (vi) Method and period of amortization; (d) What the member gets for his money; (i) Land space; (ii) Construction characteristics; (iii) Cost of unit in relation to size; (iv) Maintenance and repairs; (v) Evidence of ownership and period of lease; 5. Internal Arrangements; (a) Exchange of equity; (b) Withdrawal procedures; (c) Protective measures; (d) Community aspects; 6. Relations with Surrounding Community; 7. Cooperatives and the Federal Government; (a) Cooperatives under National Housing Act; (b) Mutuals and public housing projects; (i) Sales procedures; (ii) Types of war housing purchasers; (iii) Disposal policies for war housing; (iv) Disposal of "greentown" projects; 8. Problems of Cooperatives; (a) By-law and legal problems; (b) Acquisition of land; (c) Building codes and zoning regulations; (d) Installation of utilities; (e) Relations with architects and contractors; (f) Relations with labor; (g) Self-help as a disadvantage; (h) Problems of finance; (i) Experience with lenders; (ii) Experience with insurers; (i) Problems of time lag; (j) Problems of rising costs; (k) Membership problems; (l) Operating problems; (m) Special problems of mutuals; (n) Other problems; (o) Reasons for failure; 9. Appendix A. Housing Associations Covered in Study; 10. Appendix B. Documents and Forms used by Housing Cooperatives; (a) All-the-way cooperatives; (i) By-laws; (ii) Lease agreements; (b) Co-ventures; (i) Articles of incorporation; (ii) By-laws; (iii) Membership agreement; (iv) Membership application and purchase agreement; (v) Realty sale and building contract; (vi) Option agreement; (c) Mutuals; (i) Articles of association; (ii) By-laws; (iii) Mutual ownership contract; (iv) Financial questionnaire; (v) Bylaws of community council; 11. Appendix C. Information for New Groups; (a) Suggestions for starting a housing cooperative; (b) Regulations and procedures under Section 213 of National Housing Act of 1950; 12. Appendix D. Experiences of a Mutual. NOTE: The work also includes the following Tables: 1. Active cooperative housing associations and dissolved associations reported, by type and location, July 31, 1950; 2. Number, Membership, and Business of Cooperative Housing Associations, by Status and Type; 3. Period in which Housing Associations were Established; 4. Laws under which Housing Associations Incorporated; 5. Extent of Cooperation in Housing Associations; 6. Income and size, in 1949, of Family Members of Housing Associations; 7. Age of Head of Families in Housing Associations; 8. Total Acreage Held by Housing Associations; and Amount Allocated for Community Purposes; 9. Active Housing Associations Holding Classified Acreage; 10. Dwelling Units and Rooms Planned and Completed by Housing Associations; 11. Number of Dwelling Units Completed or Under Construction, by Size of Project and Type of Dwelling; 12. Size of Dwelling Units Completed or Under Construction by Housing Associations; 13. Cost of Land, Before and After Development, Held by Housing Associations; 14. Number of Housing Associations with Specified Land Cost per Acre Before and After Development; 15. Cost of Housing Projects, by Item; 16. Number of Housing Projects with Specified Total Cost; 17. Total and Average Cost of Housing Projects; 18. Sources of Funds for Purchase of Land, Construction, and Down Payment; 19. Mortgage Indebtedness of Active Housing Associations; 20. Interest Rate, and Year and Period of Mortgage in Housing Associations; 21. Amounts of Original Mortgage Indebtedness Financed at Specified Interest Rates; 22. Assets and Net Worth of Housing Associations; 23. Cost of Joining Housing Associations, by Amount Required; 24. Average Down Payment Required, by Amount and Percent of Total Cost of Unit; 25. Monthly Cost of Dwelling Unit per Member, in All-the-Way Cooperatives, by Cost Item and Year; 26. Monthly Rentals in Mutual Associations, by Size of Dwelling Unit; 27. Number of Associations Building Houses, by Size of Lot; 28. Number of Housing Projects with Specified Density of Dwelling Units; 29. Construction Characteristics of Dwellings in Housing Projects; 30. Price per Unit, and Amount and Cost of Living Space, in Dwellings of Housing Associations; 31. Number of Housing Projects, by Type of Community Facilities Provided; 32. Number of Permanent Family-Type Dwelling Units Sold by P.H.A., by Type of Purchaser and Program Under Which Built, End of 1950; 33. Standard Financial Terms for Sale of Permanent War Housing to Mutuals; 34. Interval Between Formation of Association and Completion of First Unit, and Time Between First and Last Units; and 35. Membership Fluctuations in Housing Associations.

ABSTRACT. This work presents the results of a survey of operations of cooperative housing associations, with emphasis on the causes of successes and failures. The study draws together statistical materials gathered from 165 associations, some still in operation and some now dissolved. The severe housing shortage in the United States after World War II led to increased interest in cooperative housing as one means of solving this problem. The aim of the study was to present materials that might help future consumer groups, in forming cooperative housing associations, "to avoid the pitfalls which have beset some of their predecessors." The study presents information on the experience of 133 associations that were active in 1950 and on 32 associations that had been dissolved. Field studies were made of 68 of the active and 30 of the dissolved associations. Main emphasis in the study is on associations actively building dwellings within the past decade. The survey was directed by Florence E. Parker, the Specialist on Cooperatives in the Bureau of Labor Statistics. She also participated in the field work, assisted by Charles J.

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Appleby, Donald J. Dowd, Joseph C. Furey, Robert P. Lane, Herbert H. Moede, and James E. Zenith—all on the Prices Staff of the Bureau of Labor Statistics. The section on the legal and administrative status of cooperatives under the National Housing Acts was prepared by C. Franklin Daniels, Deputy Assistant Commissioner, Cooperative Housing Division, Federal Housing Administration. The corresponding section on mutual housing corporations and the Public Housing Administration was prepared by Donald Landay of that agency. The study was financed, in part, by the Division of Housing Research, Housing and Home Finance Agency.

(1101) HOUSING OF THE NON-WHITE POPULATION, 1940 TO 1950 by Charles L. Franklin; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D C., July 1952.—42 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Summary in Charts; 3. Population changes; (a) Growth and movement; (b) Comparative changes in population and households; (c) Geographic shifts in households; 4. Housing Supply; (a) Doubling; (b) Overcrowding; (c) Income; (d) Condition and facilities of housing; (e) Tenure; (f) Mortgage status of owned homes; (g) Value of owned homes; (h) Contract monthly rents; 5. Conclusions; 6. Appendix A: Definitions and Explanatory Notes; 7. Appendix B: Statistical Tables.

ABSTRACT. A booklet reporting the progress made in housing of the non-white population, 1940–1950. It brings up-to-date the data reported in previous publications released in January and June 1948, respectively. It considers the impacts of war, mass migration of workers and family dislocations, rapid urbanization and other factors of major economic resurgence during the decade. Preliminary tabulations of the data collected by the 1950 Census of Population and Housing have been studied closely and compared with similar data collected by the 1940 Censuses of Population and Housing. Although additional data are available for both 1940 and 1950, with reference to population and labor force particularly, only those data were selected for analysis in this report which had special bearing on housing and which were tabulated by racial classifications. The present report represents a revision and expansion of an earlier report having the same title but covering only the first 7 years, 1940–7, of the last decade. The present report was prepared in the Housing Economics Branch of HHFA's Division of Housing Research, with the collaboration of the Racial Relations Service of that agency. The final editing of the report was done by B. T. McGraw of the Racial Relations Service.

(1121) "HOW OUR AGED FAMILIES ARE HOUSED"—Based on material prepared by Leonard S. Silk; in *Housing Research*, Winter 1951-1952, pages 19-22; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. HHFA Sponsors Special Tabulation; 3. What the Tabulation Revealed; (a) Condition of housing of the aged; (b) Number of persons per dwelling; (c) Number of rooms per dwelling; (d) Overcrowding; (e) Home ownership; (f) Value of houses owned; and (g) Rent of dwellings.

ABSTRACT. What is the housing situation of old people in the United States? Throughout the nation, in what kinds of dwellings do our aged families live? How do their incomes and housing conditions compare with the rest of the population? Answers to these questions are basic in determining future programs of housing for the aged. To get the facts, HHFA sponsored a special study of results from the 1950 Census of Housing. This article presents highlights of this study, digested for presentation to the Second International Gerontological Congress in St. Louis, Mo., in September 1951.

(c) To Buy or Not to Buy

(1151) HOME OWNERSHIP; IS IT SOUND? by John P. Dean; published by Harper & Brothers, Publishers, New York and London, 1945.—216 pages; price: $2.50

Contains chapters on: 1. America's Decision: Home Ownership; 2. "Own Your Own Home": Folk Wisdom or Folklore?; 3. The Business of Home Ownership: High Stakes in Promotion; 4. The Role of Government: Bland Advocate of the Ideal; 5. In the Market for Homes: Freedom to Buy; 6. The Home Owner: A Risk Uncalculated; 7. The Real Estate Cycle: Hindsight is Easy; 8. The Financial Dilemma: To Own or to Rent?; 9. The House: A Product for Sale or Service?; 10. The Neighborhood: Space Patterns Through Time; 11. Home Ownership: The Problem Restated; Appendix A: Suggestions for Further Research; Appendix B: Supporting Footnotes and Bibliography; and Appendix C: Tables.

(1152) WHEN YOU BUY OR BUILD A HOME. HOW TO AVOID PITFALLS AND INVEST PROFITABLY by Arthur M. Weimer and John J. Rowland; published by The Ronald Press Company, New York, N. Y., 1937.—150 pages.

Contains chapters on: 1. Where to Buy; 2. What to Buy—Property Value and Architectural Features; 3. What to Buy—General Plan of the Property; 4. What to Buy—Structural Factors; 5. When to Buy—The Real Estate Market and Cycle; 6. How to Buy—The Mechanics of Real Estate Purchases; 7. How to Buy—Financing Home Ownership; 8. How to Buy—Special Problems of House Building.

(1153) WHEN YOU BUY A HOME LOOK AT THE LOT AND NEIGHBORHOOD—Prepared and published by the Housing and Home Finance Agency, Washington, D. C., November 1950.—14 pages; price: 5¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. One-unit House and Lot; 2. Inside the Lot Line; 3. What Makes a Lot Usable?; 4. Beyond the Lot Line; 5. Convenience and Accessibility; 6. Protection and Limitations; 7. The Purchase Transaction; 8. The Cost Side; 9. Your Decision; and 10. Checklist.

ABSTRACT. A booklet prepared in response to widespread interest and need of prospective home owners for a simple nontechnical guide to assist in selecting a site for a home, or in choosing a property presently built upon. The pamphlet discusses basic features to be considered and provides a simple checklist for their evaluation.

PART XII

HOUSING RESEARCH

(a) Research Methods and Equipment

(1181) RESEARCH ON BUILDING MATERIALS AND STRUCTURES FOR USE IN LOW-COST HOUSING by Hugh L. Dryden; Building Materials and Structures Report BMS 1; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 16, 1938.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Objectives; 3. Procedure; 4. Scope; 5. Cooperation with Industry; 6. Detailed Programs; and 7. No "Approvals."

For many years the National Bureau of Standards has developed test methods, made tests, and conducted research on building materials, such as cement, lime, brick, tile, and steel and has cooperated with various agencies in the formulation of specifications for such materials. The results of this work have been published in the Journal of Research, or in the trade journals, or are embodied in specifications of the Federal Government and of cooperating technical societies and industries. A new approach has now been made to the problem of applying technical research in the building industry. This first report in a new series of publications is intended to explain that approach. Invaluable advice and assistance by the Central Housing Committee and its various affiliated groups and cooperating individuals is acknowledged.

(1182) METHODS OF DETERMINING THE STRUCTURAL PROPERTIES OF LOW-COST HOUSE CONSTRUCTIONS by Herbert L. Whittemore and Ambrose H. Stang; Building Materials and Structures Report BMS 2; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 10, 1938.—18 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Cooperation with Industry; (a) Approval; 3. Cooperation with the United States Forest Service; 4. Definitions; (a) House; (b) Element; (c) Construction; (i) Wood construction; (d) Sponsor; 5. Specimens; (a) General; (i) Size; (ii) Length or height; (iii) Width; (b) Age; (c) Sponsor's obligations; (i) Description; (ii) Caution; (iii) Specimens; 6. Method of Testing Walls; (a) Compressive load; (i) Specimen; (ii) Loading; (iii) Apparatus; (iv) Results; (b) Transverse load; (i) Specimen; (ii) Loading; (iii) Apparatus; (iv) Results; (v) Masonry constructions; (c) Concentrated load (with similar sub-headings); (d) Impact load (with similar sub-headings); (e) Racking load (with similar sub-headings); 7. Method of Testing Partitions, Non-Load-Bearing (with the following sub-headings, each of which is broken down as shown above); (a) Impact load; (b) Concentrated load; 8.

Method of Testing Floors; (a) Transverse load; (b) Concentrated load; (c) Impact load; 9. Method of Testing Roofs; (a) Transverse load; (b) Concentrated load; 10. Presentation of Results.

ABSTRACT. This paper describes methods used by the National Bureau of Standards to determine the structural properties of elements of a low-cost house: that is, structural properties of wall specimens under compressive, transverse, concentrated, impact, and racking loads; of partition specimens under impact and concentrated loads; of floor specimens under transverse, concentrated, and impact loads; and of roof specimens under transverse and concentrated loads. A graphic method of presenting the results is also described. It is believed that the tests of house constructions by the methods described in this paper will give information on the structural properties which will greatly assist in the selection of a low-cost construction for given conditions. The tests described are intended to measure strength, stiffness, and resistance to abuse of constructions intended for use in low-cost houses and apartment buildings. These tests represent an attempt to develop a standard procedure for evaluating the structural properties of house constructions.

(1183) METHODS OF INVESTIGATION OF SURFACE TREATMENT FOR CORROSION PROTECTION OF STEEL by Rolla E. Pollard and Wilbur C. Porter; Building Materials and Structures Report BMS 8; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1938.—10 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Factors Affecting Durability of Paint on Metal; 3. Methods of Testing; 4. Testing Program; (a) Pretreatments for galvanized steel; (b) Surface conditions for plain sheet steel; (c) Protective coatings; (d) Status of Investigation.
ABSTRACT. Some of the factors affecting the protective value of paints for steel and galvanized surfaces are being studied by accelerated laboratory corrosion tests supplemented by outdoor exposure tests. Short descriptions are given of the various methods of testing. The significance and the limitations of such tests as compared with actual service tests are briefly discussed and the materials, pretreatment processes, and paints included in the testing program are outlined. Special attention is being given to the severity of corrosion which may result from condensed moisture, such as might occur in the enclosed areas between walls.

(1184) METHODS AND EQUIPMENT FOR TESTING PRINTED-ENAMEL FELT-BASE FLOOR COVERING by George G. Richey, Elizabeth H. McKenna, and Robert B. Hobbs; Building Materials and Structures Report BMS 130; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1, 1952.—10 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials Tested; 3. Test Methods and Equipment; 4. Service Tests; and 5. Results of Tests.

ABSTRACT. This paper describes methods and equipment for measuring the weight, over-all thickness, thickness of enamel and of seal coat, resistance to scrubbing with cleaning compound, resistance to kerosene, flexibility, and tearing strength of printed-enamel felt-base floor coverings. Results of laboratory tests are correlated with results of service tests of 11 proprietary products. The correlation was significant for all properties studied except thickness of seal coat, but no single property was outstanding in its level of significance. Printed-enamel felt-base floor coverings (known to the trade as "felt-base rugs") form the largest class of resilient non-textile floor coverings.

(b) General Descriptions of Research Projects

(1201) HOUSING RESEARCH SURVEY—Prepared by the Housing Research Conference, William H. Scheick, Chairman, University of Illinois, Urbana, Illinois; distributed by The Producers Council, Inc., Washington, D. C., about May 1948.—89 pages, mimeographed, hard paper covers; price: not stated. Copies presumably should be ordered from The Producers Council, Inc., 815 Fifteenth Street, N. W., Washington 5, D. C.

Includes a consideration of: 1. Preface, and Names of Committee Members; 2. Index of Replies to Questionnaire on Housing Research Survey; 3. Housing Research Master Outline (Grouping of Respondents by Fields of Investigation); and 4. Individual School Outlines (Alphabetical Listings of Responding Institutions, with description of Research Prosecuted at Each Institution); (a) Colleges and Universities; (b) Other research institutions.

ABSTRACT. This survey is a preliminary effort to gather information on housing research (under way or being planned) by educational institutions and by specially endowed non-commercial, non-governmental research agencies. The survey was made with the intention of transmitting the information to the Building Research Advisory Board of the National Research Council as a voluntary aid to the Board in its work of surveying and coordinating such research activities. This survey was conducted and prepared by representatives of ten institutions and agencies, acting as an unofficial Housing Research Conference, meeting at Columbus, Ohio, in the winter of 1947–48, for the purpose of advancing the cause of housing research. These organizations, and their representatives at the Conference, were: The University of Michigan (Mr. Wells Bennett and Mr. G. B. Brigham); Ohio State University (Mr. J. S. Owens, Mr. G. F. Oman, and Mr. J. P. Shank); Pennsylvania State College (Mr. E. R. Queer, and Mr. K. J. Heidrich); Purdue University (Mr. Carl F. Boester); John B. Pierce Foundation (G. M. Rapp); University of Illinois (Mr. W. H. Scheick); American Institute of Architects (Mr. Walter Taylor); Building Research Advisory Board (Mr. C. W. Smith); Housing and Home Finance Agency (Mr. Leonard G. Haeger); and Producers Council (Mr. D. T. Colton and Mr. Harry C. Plummer).

(1202) "APPLICATION OF RESEARCH IN THE BUILDING INDUSTRY" by Joseph H. Orendorff; in *Proceedings of the Conference on Building Research*, United Nations Economic Commission for Europe, Industry and Materials Committee, (Housing Sub-Committee, Geneva (Switzerland), December 1950; mimeographed, 285 pages. Mr. Orendorff's paper is on pages 239-275; price: not stated. Copies should be ordered from the United Nations Economic Commission for Europe, Industry and Materials Committee, Housing Sub-Committee, c/o United Nations, New York City. In ordering, cite the full title of the document, and then add the following: "Publication E/ECE/122; E/ECE/IM/HOU/BR/2; English version."

Includes a consideration of: 1. Research a Symptom of Industrial Change; (a) Research comes of age; (i) Benefits to more concentrated industries; (ii) Companies supporting research; (iii) Bigness not a factor; (iv) Age of industry a factor; (v) Industrial research a recent development; (A) Larger companies first to benefit; (B) Research and small companies; (vi) Choice of methods; (b) The development of research facilities; (i) Government in research; (ii) Technical societies; (iii) Large company facilities; (A) Technical service staff; (B) Central research department; (iv) Colleges and universities; (v) Trade associations; (c) The pattern of industrial research; (d) Integration of functional activities; (i) Integration by management; (ii) Setting of objectives; (iii) Assignments to specialists; (e) Vertical integration—horizontal competition; 2. Change in the Building Industry; (a) In the beginning; (i) Shelter is a constant; (ii) Large companies in the housing industry; (iii) Education for research; (b) More facilities; (i) Government and housing research; (ii) Building Research Advisory Board; (iii) Trade Associations; (A) National Association of Home Builders; (B) Prefabricated Home Manufacturers Institute; (C) Structural Clay Products Institute; (D) Lumber Dealers Research Council; (c) Patterns for housing research; (d) Integrated research in housing; (e) Vertical integration—horizontal cooperation.

(1203) HOUSING RESEARCH: CAPSULE DESCRIPTIONS OF PROJECTS STARTED UNDER CONTRACT IN 1950—Published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1951.—66 pages; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Urban Studies (4 projects); 2. Housing Economics; (a) Housing Market analysis (4 projects); (b) Housing supply analysis (2 projects); (c) Housing production and cost analysis (5 projects); (d) Miscellaneous (2 propects); 3. Housing Finance (5 projects); 4. Housing Technology; (a) Dwelling space and room arrangement (2 projects); (b) Structural components of houses (13 projects); (c) Materials of house structure (10 projects); (d) Housing sanitation (4 projects); (e) Heating and air conditioning (4 projects); (f) Miscellaneous (2 projects); and 5. General (1 project).

ABSTRACT. This book describes briefly the 58 research contracts negotiated by HHFA's Division of Housing Research under Title IV of the Housing Act of 1949 with universities, government laboratories, and other nonprofit research organizations to help achieve national housing objectives through a comprehensive research program spanning housing technology, the social sciences, and related fields. The projects are focused on solving practical problems of those engaged in various phases of housing production, financing, and operation, for the mutual benefit of the housing industry and housing consumers. Foreword by Richard U. Ratcliff, Director of Housing Research.
NOTE: Most of the projects described have since been completed, and the published reports of many of them are listed in the present reading list.

(1204) RESEARCH FOR INTERCENSAL HOUSING SURVEYS: AN HHFA RESEARCH PROGRESS REPORT—AUGUST 1951—Published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., August 1951. 12 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Need for Better Statistics; 2. Cost and Reliability; 3. Plan of Operation; 4. Research in Progress; 5. Sample Design; 6. Research in Concepts and Definitions; 7. Research in Subject-Matter Content.
ABSTRACT. An exposition of research sponsored by the Housing and Home Finance Agency and conducted by the Bureau of the Census on the problems involved in making Intercensal Housing Surveys. The study touches upon the several problems that must be solved before any survey can be undertaken, and outlines the research in progress or still planned, including research on cost factors, reliability of data, etc. This report was prepared for HHFA, under the general

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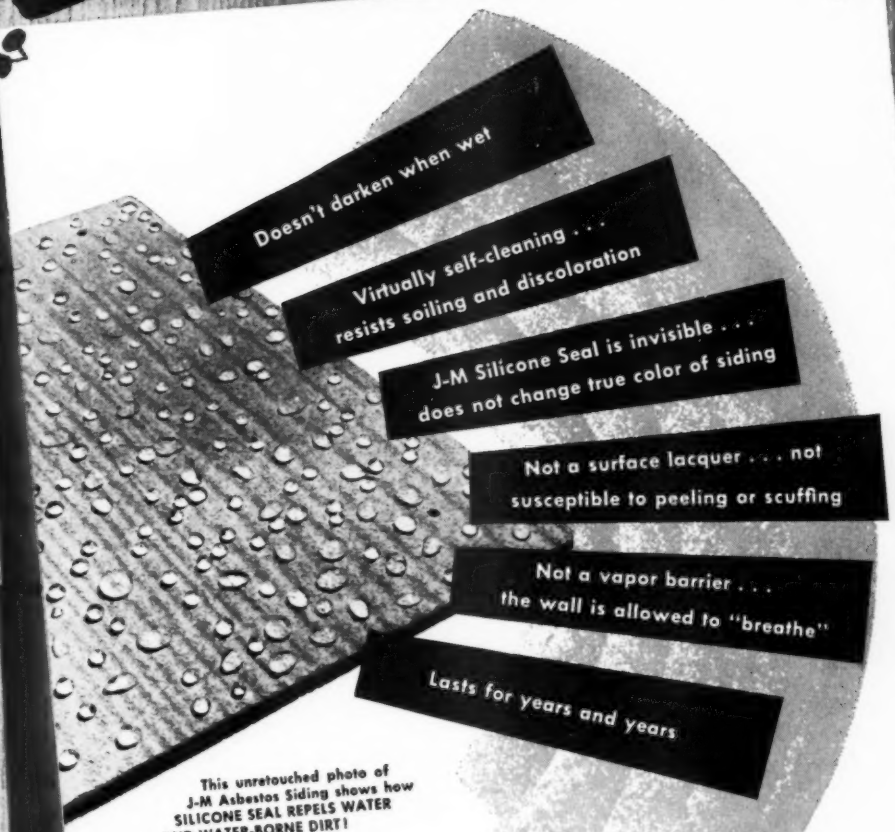

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direction of Howard G. Brunsman, Director of the Population Division of the Bureau of the Census, by Wayne S. Daugherty and J. Hugh Rose.

(1205) "NOTES ON NEW HHFA HOUSING RESEARCH CONTRACTS"—Author not named; in *Housing Research*, Fall 1951, pages 41-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Financing Conversions of One-Family Residences to Multifamily Use; 2. Demonstration of New Techniques for Building Low-Cost Houses; 3. Self-Help Housing Construction in Alaska; 4. Techniques for Saving Materials and Labor in Frame Houses; 5. Guides for Urbanization in Metropolitan Areas Affected by Industrial Expansion; 6. Guides for Urbanization in Rural Areas Affected by Industrial Expansion; and 7. A Guide for Delineating Labor and Housing Supply in Defense Plant Areas.

ABSTRACT. This article presents brief notes about HHFA research projects started under contract with fiscal 1951 funds, and focused on housing problems related to the then-current emergency. These "capsule descriptions" cover none of the research projects financed with special funds made available under the Defense Production Act of 1950 and concerned primarily with measuring the impact of real estate credit restrictions on the housing industry, nor do they cover the Agency's extensive staff research activities. The projects covered here are among the approximately 40 started under contract in 1951. All were designed to produce results useful in the defense program. Contract 1, above, identifies problems and local practices at Pittsburgh, Pa., and Rochester, N. Y.; Contract 2 is with the Small Homes Council, University of Illinois; Contract 3 is with the University of Minnesota; Contract 4 is with the Small Homes Council, University of Illinois; Contract 5, which relates to the Morrisville area of lower Bucks County, Pa., is with the University of Pennsylvania; Contract 6, which relates to the Savannah River Area of South Carolina and Georgia (Aiken, S. C., and Augusta, Ga.) is with the University of North Carolina; and Contract 7 is with Cornell University.

(1206) "RESULTS OF A SURVEY OF HOUSING RESEARCH" by Winfield Best and Eugene A. Tilleux; in *Housing Research*, Winter 1951-1952, pages 23-27; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Survey Scope and Method; 2. Response and Coverage; 3. Number and Kinds of Projects; 4. Major Universities in Housing Research; 5. Concentrations in Certain Fields; 6. Research Expenditures and Sponsorship; 7. Advance Indications of Survey Value; 8. Sample Facts on Selected Projects; (a) Technological research; (i) Building materials; (ii) Structures; (iii) Mechanical equipment; (iv) Other technological; (b) Social science and other nontechnical research; (i) Urban studies; (ii) General economic and social data; (iii) Physiology and Social psychology; and (iv) Other social science and nontechnological.

ABSTRACT. As one of its first major projects the HHFA Division of Housing Research in 1950 engaged the National Academy of Sciences to conduct a survey of housing research in nonprofit institutions and commercial laboratories throughout the United States. The survey was undertaken by the Academy's Building Research Advisory Board. Development and selected findings of the survey are summarized here from the final project report which was reviewed by the BRAB Executive Committee and a special panel of Social Science Research Council members. For a description of the full report, see item (1207) of this reading list.

(1207) A SURVEY OF HOUSING RESEARCH IN THE UNITED STATES—Conducted by The Building Research Advisory Board, National Research Council, National Academy of Sciences, Washington, D. C., under contract with the Housing and Home Finance Agency; published by the Housing and Home Finance Agency, Washington, D. C., November 1952.—723 pages; price: $3.00, paper bound.

The work includes: 1. Foreword (by Joseph H. Orendorff); 2. The Building Research Advisory Board, Advisory Committee for Housing Research Survey; 3. Preface; 4. Summary; 5. PART I—DEFINITION OF HOUSING RESEARCH; 6. Definitive List; 7. PART II—SUBJECTIVE CLASSIFICATION OF REPORTED RESEARCH; 8. Introduction to Reported Research Classified by Subjects; 9. Index of Reported Research; 10. Project Listings by Subject; 11. PART III—ORGANIZATIONS AND THEIR WORK; 12. Introduction to Summarized Reports of Research Organizations; 13. Index to Organizations Reporting Housing Research; 14. Educational Institutions Reporting Housing Research; 15. Educational Institutions Reporting No Housing Research; 16. Foundations and Nonprofit Agencies Reporting Housing Research; 17. Professional Societies and Trade Associations Reporting Housing Research; 18. Commercial Laboratories Reporting Housing Research; 19. Summarized Reports of Research Organizations; 20. PART IV—SURVEY OPERATIONS; 21. Scope of Subject Matter; 22. Method of Selecting Organizations Surveyed; 23. The Survey Questionnaire; 24. Canvassing Operations; 25. Editing Methods; 26. Tabulation of Survey Data; 27. Review and Over-all Analysis of Survey; 28. APPENDIX; 29. Sample Covering Letter to Organizations; 30. Form, "General Information on How to Report"; and 31. The Questionnaire Forms.

ABSTRACT. A handbook to provide industry with as much information as possible about what is being done in housing research by educational institutions, scientific foundations, professional societies and trade associations, and commercial laboratories. The Division of Housing Research, Housing and Home Finance Agency, engaged the National Academy of Sciences to conduct the survey which was carried out by the Academy's Building Research Advisory Board. It is the first comprehensive survey of this character ever made in the United States and is, therefore, a pioneering achievement. The study is intended to assist the housing industry to make the most efficient use of current research activity and to furnish data as to facilities available for further housing research. The survey was directed by William H. Scheick, Executive Director, Building Research Advisory Board, with the assistance of Albert Dickens and others. HHFA staff technician on the project was Eugene A. Tilleux.

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(1221) *TECHNICAL BULLETIN* Published by, or for, the Housing and Home Finance Agency, Washington, D. C. Bulletins 1–5 inclusive were prepared by the Technical Staff (of the Office of the Administrator) of which Leonard G. Haeger was Director. Bulletins 6–11 inclusive were prepared by the Division of Standardized Building Codes and Materials, of which Leonard G. Haeger was Director. Bulletins 12–17 inclusive were prepared by the Division of Housing Research of which Richard U. Ratcliff was Director. Publication of the *Technical Bulletin* ceased in June 1951 with issue No. 17. It was thereafter succeeded by *Housing Research*, a journal of somewhat broader scope, designed to accommodate socio-economic, as well as technical, articles growing from the broadened HHFA research program provided for by the Housing Act of 1949.

Availability: Bulletins 1–9 were published (by the multilith process) and distributed by the Housing and Home Finance Agency. Except for a few copies of *Bulletins* 1, 4, 5, 6, 7 and 9, however, they are now out of print and are available only through libraries. Bulletins 10–17 were published by, and are still available from, the U. S. Government Printing Office; Price: The prices of available *Technical Bulletins* 10–17 are indicated separately below. Copies should be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

(1221b) *TECHNICAL BULLETIN NO. 1*, November 1947, 34 pages.

CONTENTS: (a) "Lower Costs Through Better Codes" pages 3–6; (b) "Housing Research" pages 7–17—(i) Uniform plumbing code, (ii) Lightweight concrete, (iii) Condensation control studies, (iv) Individual sewage disposal systems; (c) "Insulation of Concrete Floors in Dwellings" by Laurence Shuman, pages 18–28; (d) "Earth Constructions" using adobe blocks, bitudobe blocks, monolithic terracrete, terracrete blocks, and rammed earth (*pisé de terre*), pages 29–32.

(1221b) *TECHNICAL BULLETIN NO. 2*, January 1948, 56 pages.

CONTENTS: (a) "Current Progress in Code Improvement" pages 1–3; (b) "Planning the House Before Designing" pages 5–9; (c) "Wood Roof Trusses for Small Dwellings" pages 11–16; (d) "Crawl Spaces" by Ralph R. Britton, pages 17–39; (e) "Winter Building Methods" pages 41–52.

(1221c) *TECHNICAL BULLETIN NO. 3*, March 1948, 58 pages.

CONTENTS: (a) "Insulation—Where and How Much" by Laurence Shuman, pages 1–13; (b) "Basements vs. No Basements for Houses: Part I" pages 17–26; (c) "Cost Reduction through Functional in lieu of Specification Requirements" pages 27–33; (d) "Graphic Analysis of Self-Siphonage of Fixture Traps, Wet Venting and Stack Venting" by V. T. Manas, Chairman, Uniform Plumbing Code Committee, pages 36–42; (e) "Modular Coordination—A Promising Approach to Lower Costs" pages 43–55.

(1221d) *TECHNICAL BULLETIN NO. 4*, May 1948, 30 pages.

CONTENTS: (a) "Septic Tank Studies" by Laurence Shuman, pages 1–10; (b) "Basements vs. No Basements for Houses: Part II—Utility Room Within the Structure" pages 11–18; (c) "What to do About Condensation" by E. R. Queer and E. R. McLaughlin of Pennsylvania State College, pages 19–27.

(1221e) *TECHNICAL BULLETIN NO. 5*, July 1948, 65 pages.

CONTENTS: (a) "Fuel Consumption in the Home" by Laurence Shuman, pages 1–17; (b) "Basements vs. No Basements for Houses: Part III—Two-Story Structures" pages 19–31; (c) "Information Notes: Water Penetration and Vapor Permeability of Sheet Materials as Related to Condensation Control in Dwelling Construction" by Ralph R. Britton, pages 33–37; (d) "Small-Scale Manufacture of Insulating Boards from Wood Wastes" by E. A. Anderson, M. Heinig, J. P. Hohf, C. E. Hrubesky, M. A. Millett, S. L. Schwartz, F. J. Spinar, F. A. Strenge, and H. Dale Turner, of the Forest Products Laboratory, pages 39–61.

(1221f) *TECHNICAL BULLETIN NO. 6*, September 1948, 51 pages.

CONTENTS: (a) "Racking Loads and Resistance to Them in Dwelling Construction" by Ralph R. Britton, pages 1–23; (b) "The Outlook for Modular Coordination and Standardization" by Leonard G. Haeger, pages 25–28; (c) "Attic Condensation in Tightly Built Houses" by C. A. Jordan, E. C. Peck, F. A. Strenge, and L. V. Teesdale, of the Forest Products Laboratory, pages 29–46.

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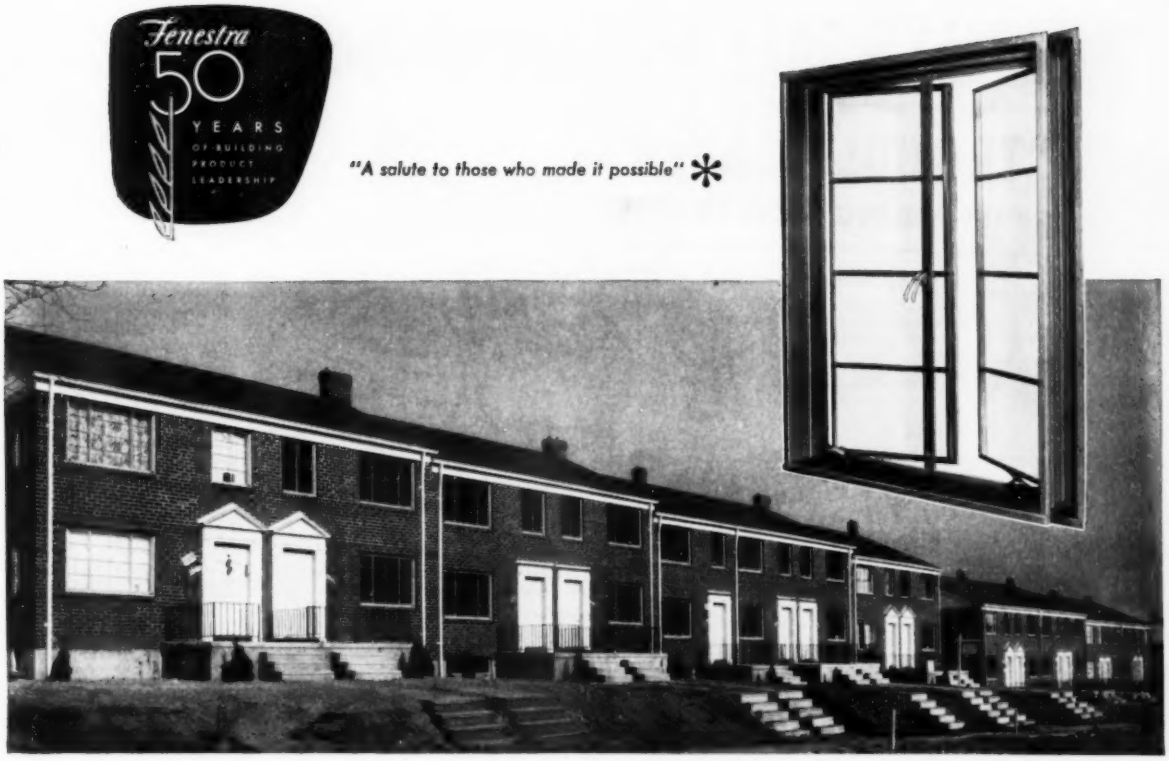

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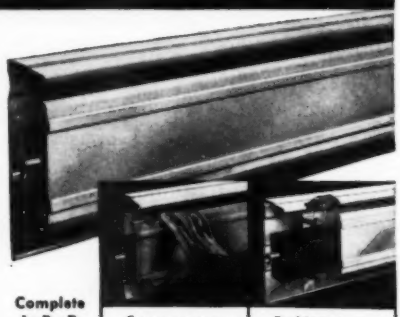

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(1221g) *TECHNICAL BULLETIN NO. 7*, November 1948, 47 pages.

CONTENTS: (a) "Aspects of Electrical Installations in Houses: Code, Comfort and Convenience" by Jefferson D. Brooks, pages 1–13; (b) "Model Bill for Statute Authorizing Adoption of Codes by Reference" pages 15–19; (c) "Individual Sewage Disposal Systems: Part I" pages 21–41.

(1221h) *TECHNICAL BULLETIN NO. 8*, January 1949, 245 pages.

(NOTE: This "Special Issue" *reprints* 15 of the 27 articles appearing in numbers 1–7, and adds two *new* articles: the second part of Mr. Brooks' paper on "Aspects of Electrical Installations in Houses" and the paper entitled "Lower Costs Through Power Tools and Equipment.")

CONTENTS: (a) "Model Bill for Statute Authorizing Adoption of Codes by Reference" pages 1–5; (b) "Cost reduction Through Functional in Lieu of Specification Requirements" pages 7–15; (c) "Modular Coordination—A Promising Approach to Lower Costs" pages 17–21; (d) "Planning the House Before Designing: A Graphic Study of Livability Problems" pages 23–27; (e) "Basements vs. No Basements for Houses: Parts I, II, and III" pages 29–59; (f) "Wood Roof Trusses for Small Dwellings" pages 61–66; (g) "Attic Condensation in Tightly Built Houses" pages 67–84; (h) "Crawl Spaces" pages 85–107; (i) "Racking Loads and Resistance to Them in Dwelling Construction" pages 109–131; (j) "Insulation—Where and How Much" pages 133–147; (k) "Insulation of Concrete Floors in Dwellings" pages 149–159; (l) "Fuel Consumption in the Home" pages 161–177; (m) "Graphic Analysis of Self-Siphonage of Fixture Traps" pages 179–185; (n) "Septic Tank Studies" pages 187–196; (o) "Aspects of Electrical Installations in Houses" by Jefferson D. Brooks. In two parts: (i) "Code, Comfort and Convenience" pages 197–209; (ii) "Requirements for Convenience and Efficiency" pages 211–235; (p) "Lower Costs Through Power Tools and Equipment" (new) pages 237–239.

(1221i) *TECHNICAL BULLETIN NO. 9*, March 1949, 43 pages.

CONTENTS: (a) "Coordination and Standard Products in Small House Design" pages 1–6; (b) "Concrete Masonry" by Amund M. Korsmo, pages 7–17; (c) "Aspects of Fire and Safety in Relation to Space Planning for Mechanical Equipment in Houses" by Jefferson D. Brooks, pages 19–37.

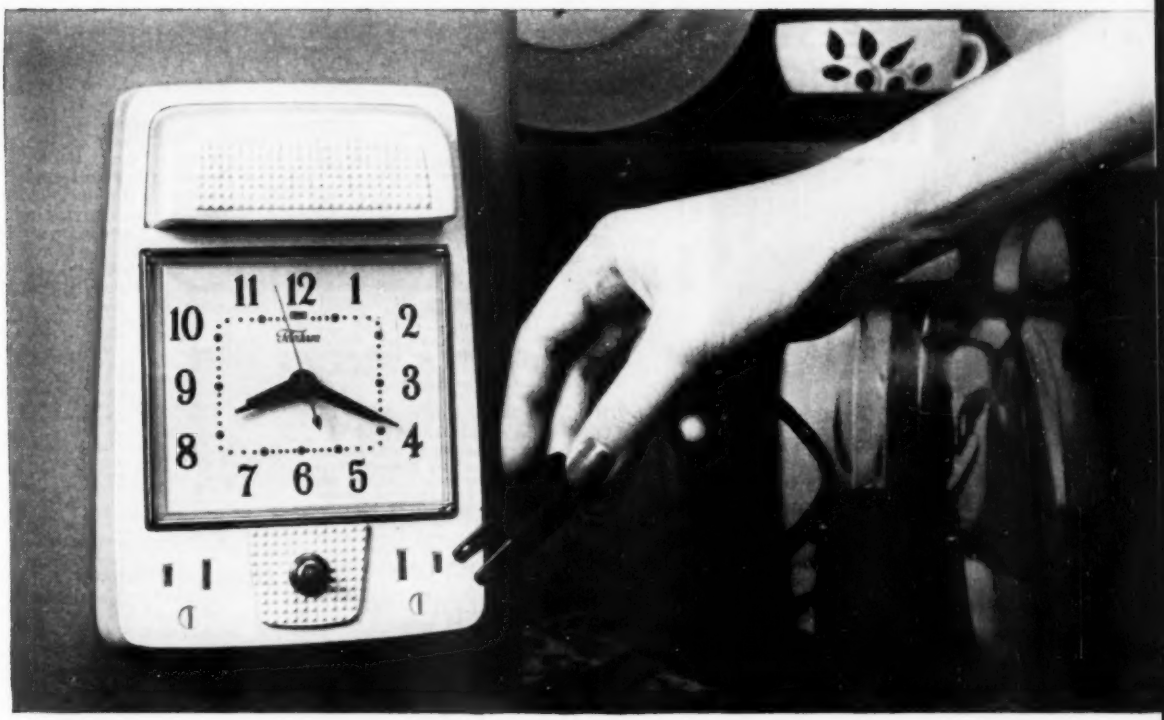
TECHNICAL BULLETIN NO. 10, May-July 1949, 35 pages.

CONTENTS: (a) "Application of the Floor Furnace in the Heating of Small Houses" by Robert K. Thulman, pages 1–9. See item (224) of this reading list; (b) "Condensation Control in Dwelling Construction: Good Practice Recommendations" by Ralph R. Britton, pages 11–15. See item (214) of this reading list; (c) "Individual Sewage Disposal Systems: Part II" pages 17–32. See item (571) of this reading list.

TECHNICAL BULLETIN NO. 11, September-November 1949, 42 pages.

CONTENTS: (a) "Coordination in Building Construction" by Bernard Wagner, pages 1–6. See item (265) of this reading list; (b) "Water Vapor Resistance of Building Materials" by Ralph R. Britton and Robert C. Reichel, pages 7–13. See item (645) of this reading list; (c) "Report on Survey of Factors Hindering More General Acceptance of the Modular Principle in Design and Construction" by the Executive Committee of the Building Research Advisory Board. See item (264) of this reading list; (d) "Individual Sewage Disposal Systems: Part III" pages 19–37. See item (571) of this reading list. See also HHFA *Technical Paper No. 14: Septic Tank Studies (Individual Sewage Disposal Systems)* which is item (582) of the present reading list.

TECHNICAL BULLETIN NO. 12, January 1950, 20 pages.



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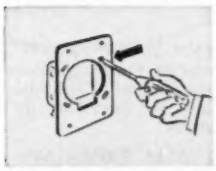

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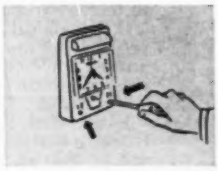

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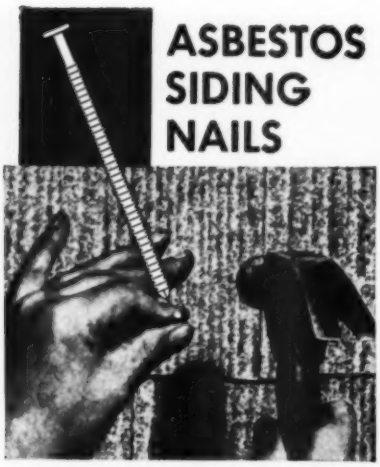

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CONTENTS: (a) "Aspects of Electrical Conduit Installations in Houses" by Jefferson D. Brooks. pages 1–7. See item (661) of this reading list; (b) "Report on Tests for Condensation on Reflective Insulation Under Wooden Floor" by Laurence Shuman. pages 9–12. See item (644) of this reading list; (c) "Water Vapor Transmission of Building Materials Using Four Different Testing Methods" by Ralph R. Britton and Robert C. Reichel. pages 13–16. See item (643) of this reading list.

TECHNICAL BULLETIN NO. 13, March 1950, 31 pages.

CONTENTS: (a) "Rat Control in Existing Dwelling Units" by E. J. Herringer. pages 1–9. See item (1031) of this reading list; (b) "Expected Resistance to Racking of Douglas Fir Plywood-Sheathed Walls" by William A. Russell. pages 11–15. See item (301) of this reading list; (c) "Low-Cost Wiring Methods and Materials for Houses" by Jefferson D. Brooks. pages 17–28. See item (662) of this reading list.

TECHNICAL BULLETIN NO. 14, May-July 1950, 31 pages.

CONTENTS: (a) "Economies of Row Houses for Rental Properties" by Bernard Wagner. pages 1–14. See item (127) of this reading list; (b) "Prevention of Dampness in Basements" by Perry H. Petersen. pages 15–21. See item (642) of this reading list; (c) "Ratproof Construction of Dwellings" by E. J. Herringer. pages 23–27. See item (281) of this reading list.

TECHNICAL BULLETIN NO. 15, September 1950, 25 pages.

CONTENTS: (a) "Design for Livability" by Bernard Wagner. pages 1–10. See item (122) of this reading list; (b) "Performance of Modular Clay Flue Linings" by Robert K. Thulman. pages 11–15. See item (223) of this reading list; (c) "Noise in Domestic Water Systems" by Fred W. McGhan. pages 17–22. See item (558) of this reading list.

TECHNICAL BULLETIN NO. 16, November 1950, 24 pages.

CONTENTS: (a) "Greater Livability at Small Additional Cost" pages 1–11. See item (124) of this reading list; (b) "Foamed Concrete" pages 13–15. See item (511) of this reading list; (c) "Water Flow Rates in Piping" by Fred W. McGhan. pages 17–19. See item (162) of this reading list.

TECHNICAL BULLETIN NO. 17, June 1951, 20 pages.

CONTENTS: (a) "Raising Roofs by Hydraulic Jacks Lowers Construction Costs" by Stanley P. Stewart. pages 1–6. See item (481) of this reading list; (b) "Accelerated Weathering Test of Treatments, Priming Coat, and Finish Paint for Aluminum Sheet Metal" by Perry H. Petersen. pages 7–10. See item (605) of this reading list; (c) "Septic Tank Systems and Garbage Grinders" by Fred W. McGhan. pages 11–16. See item (583) of this reading list.

(No further issues of the *Technical Bulletin* were published. See *Technical Papers* and *Housing Research.*)

(1222) TECHNICAL PAPERS—Published by the Housing and Home Finance Agency, Washington, D. C. *Technical Papers* 1, 2, 3 and 4 were originally published by the National Housing Agency and were republished by the H.H.F.A. *Technical Papers* 1 through 10 were prepared, within the Office of the Administrator, by the Technical Staff of which Leonard G. Haeger was Director. *Technical Papers* 11, 12, and the original edition of 13, were prepared by the Division of Standardized Building Codes and Materials, of which Leonard G. Haeger was Director. *Technical Paper* 14 was prepared by the Division of Housing Research, of which Richard U. Ratcliff was Director. The series came to an end with *Technical Paper* No. 14, in May 1950. The original editions of *Technical Papers* 1-5 had been mimeographed. They were thereafter multilithed. In March 1951 the *Technical Papers* were succeeded by a series of *Housing Research Papers,* published, for the H.H.F.A., by the U. S. Government Printing Office. The first paper of the new series ("Fixture Unit Ratings Used in Plumbing System Design") was designated as *Housing Research Paper* No. 15, thus carrying on the numbering of the earlier series. In November 1952, *Technical Paper* No. 13 was revised and republished as *Housing Research Paper* No. 13.

Availability: Only *Technical Papers* 7, 9, 10, 11, and 14 are now available. Requests for copies should be addressed to the Housing and Home Finance Agency, Washington, D. C. *Technical Papers* 1, 2, 3, 8 and 12 were progress reports on a project conducted, at the Engineering Experiment Station of Pennsylvania State College, on condensation in walls and roofs. They have been succeeded by the final report on the project, published as *Housing Research Paper* 16: "Moisture and the Durability of Wood-Frame Walls." *Technical Paper* 6 has been superseded by the "Report of the Coordinating Committee for a National Plumbing Code," for which see item (922) of this reading list.

(1222a) *TECHNICAL PAPERS NOS. 1, 2 AND 3:* "Condensation in Walls and Roofs" by Ralph R. Britton, in cooperation with the Office of the Housing Expediter. All three papers combined under one cover, July 1948.—74 pages; (a) *Technical Paper 1,* originally published in March 1947.—14 pages; (b) *Technical Paper 2,* originally published in June 1947.—18 pages; (c) *Technical Paper 3,* originally published in September 1947.—42 pages.

(1222b) *TECHNICAL PAPER NO. 4:* "Selected References on Requirements and Public Acceptance Factors Relating to Housing Design. Part 1. List of References. Part 2. Detailed Studies and Surveys." Published in April 1947.—19 pages.

(1222c) *TECHNICAL PAPER NO. 5:* "Design Data—Bedrooms" by Harold Sandbank. Published in December 1947.—9 pages.

(1222d) *TECHNICAL PAPER NO. 6:* "The Uniform Plumbing Code for Housing." Published in February 1948.—83 pages.

TECHNICAL PAPER NO. 7: "Physical Properties and Fabrication Details of Experimental Honeycomb-Core Sandwich House Panels." Published in February 1948. See item (303) of this reading list.

(1222e) *TECHNICAL PAPER NO. 8:* "Condensation in Walls and Roofs" (Progress Report No. 4) by Ralph R. Britton. Published in April 1948.—21 pages.

TECHNICAL PAPER NO. 9: "Some Properties of Paper-Overlaid Veneer and Plywood." Published in May 1948. See item (719) of this reading list.

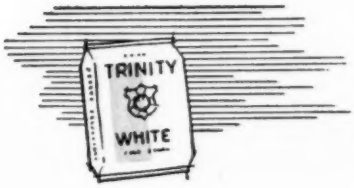
TECHNICAL PAPER NO. 10: "Properties of Four Experimental Flush-Type Doors." Published in August 1948. See item (720) of this reading list.

TECHNICAL PAPER NO. 11: "Properties of Experimental Wood-Base House Flooring Materials (Including a Tentative Test Procedure for

USE Trinity White

PORTLAND CEMENT

the whitest white cement



Trinity White is a true portland cement and has unexcelled beauty—the beauty of the whitest white . . . plus the best possible results when color pigments are added. Use it wherever you want greater masonry beauty or higher light reflection as for example: architectural concrete units; terrazzo; stucco; light-reflecting floors and walls. For descriptive literature, write Trinity White Cement, 111 W. Monroe St., Chicago.

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Introduced last Fall in the Better Homes & Gardens "Reader's Choice" home erected by prominent builders all over the country, the "Lifetime" won immediate and enthusiastic acceptance! Easy to install using standard diverter valves or separate fixtures. Stainless steel and chrome, beautiful and inexpensive, $13.50 (suggested retail). *Sold through *plumbing and heating wholesalers and dealers only.* Write Dept. A-2 today for plans of installation and literature.

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Flooring)." Published in November 1948. See item (421) of this reading list.

(1222f) *TECHNICAL PAPER NO. 12:* "Condensation in Wood Frame Walls Under Variable State Conditions of Exposure" (Progress Report No. 5), by Ralph R. Britton and Robert C. Reichel. Published in June 1949.–51 pages.

TECHNICAL PAPER NO. 13: "Performance of Masonry Chimneys for Houses" by Robert K. Thulman. Published in August 1949.–46 pages. For the revised edition of this report, see item (624) of this reading list.

TECHNICAL PAPER NO. 14: "Septic Tank Studies" by Laurence Shuman and Fred W. McGhan. Published in May 1950.–84 pages. See item (582) of this reading list.

All subsequent papers in this series were published as *Housing Research Papers* of the Housing and Home Finance Agency.

(1223) HOUSING RESEARCH [QUARTERLY]–Published by the Housing and Home Finance Agency, Washington, D. C. This publication is issued approximately at quarterly intervals, in the Spring, Summer, Fall and Winter. The six or seven articles comprising each issue (of 50 to 75 pages) describe the results of the contract and staff research of the Housing and Home Finance Agency. It replaces the HHFA Technical Bulletin, which was limited to reporting the results of research in housing technology. Most of the articles are written by staff members of the HHFA's Division of Housing Research. Others are written by scholars and scientists in agencies and organizations conducting housing research under HHFA contracts. The first issue appeared in the Fall of 1951 while Richard U. Ratcliff was Director of Housing Research. The remainder were issued under his successor, Joseph H. Orendorff. The quarterly has been edited, in turn, by Winfield Best, Helen K. Delany, and Russell Hogin. The contents of the several successive issues is given below, and each article is more fully described elsewhere in the present reading list, under its appropriate subject heading. The number enclosed in parentheses following the title of each article indicates the number of the more complete reference thereto in the present reading list. Issues 1 through 4 of *Housing Research* are priced at 30¢ each; issue 5 is priced at 40¢. Copies should be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Contents of *Housing Research* No. 1–Fall 1951: "Techniques for Conservation in Home Construction" (266); "Small City Mortgage Market: Hagerstown" (875); "Metropolitan Mortgage Market: San Francisco" (876); "Building Self-Help Homes" (761); "Surveying Materials Used in House Construction" (153); and "Notes on New HHFA Housing Research Contracts" (1205).
Contents of *Housing Research* No. 2–Winter 1951–1952: "Metals Saving Trends in Domestic Heating" (625); "Home Financing 1949–51–Changes Under Credit Controls" (845); "How Our Aged Families Are Housed" (1121); "Results of a Survey of Housing Research" (1206); "Regional Patterns of Materials Used in New Houses" (152); "Prevention of Cold Weather Roof Leaks" (482); "Lag in the Use of Residential Building Permits" (998).
Contents of *Housing Research* No. 3–Spring 1952: "How Important Are Conversions in the Current Housing Scene?" (13); "Trailer Coach Industry Survey for the Year 1950" (752); "An Outline for Research on Building Regulations" (901); "Will Science Plan the Home of Tomorrow?" (133); "Development of National Plumbing Code" (921); and "Snow Load Studies" (172).
Contents of *Housing Research* No. 4–October 1952: "Why People Buy the Houses They Do" (14); "National and Local Mortgage Market Structures" (847); "Durability of Moisture-Resistant Membrane Materials in Contact with the Ground" (641); "Regional Design Characteristics of New Houses" (151); "Application of Large Modules to Industrialized Housing" (263); "Food Waste Disposal Units" (591); "Chimney Location: A Practical Money and Materials Saver for the Home Builder" (130); "Saving Copper in House Wiring. Part I–Service Entrance Cable" (131).
Contents of *Housing Research* No. 5–March 1953: "Is Your Roof Construction Leaking Dollars?" (483); "Selection of Durable Exterior White House Paint" (606); "New Home Price Shifts, 1951–52, Under Credit Controls As Amended in 1951" (844); "The Fully Insulated House" (202); "Better Building Codes Through Better Administration" (902); "Chimney Location–Part II, A Practical Money and Materials Saver for the House Builder" (130); and "Saving Copper in House Wiring–Part II–Fixed Appliance Circuits" (131).
Contents of *Housing Research* No. 6–October 1953: "Mobility and Migration as Factors in Housing Demand" (12); "Humidity Conditions in Modern Houses (192); "Clear-Span Roof Trusses for One-and-One-Half Story Houses" (484); "A Program for Local Training of Building Officials" (907); and "Highlights of Outstanding Residential Mortgage Debt Analysis" (846).

(d) Other Housing Research Studies

(1231) UNIVERSITY OF ILLINOIS, SMALL HOMES COUNCIL, CIRCULAR SERIES. This is a series of approximately 30 technical circulars issued by the Small Homes Council as University of Illinois Bulletins. In addition to the Circular Series Index Number, each circular also carries a Volume, Number and Date of the Bulletin series. In the entries shown below the Circular Series Index Number is given first, followed by the title of the circular. Then follows, in parentheses, the Bulletin volume, number, and date. Then follows the name of the person who prepared the circular, the number of pages, and (if shown) the price. Copies are available from the Small Homes Council, Mumford House, University of Illinois, Urbana, Illinois.

(1231a) A1.3–Financing the Home (Vol. 49, No. 29; December 1951); prepared by Russell M. Nolen; illustrated by W.S. Pusey; edited by M. H. Kennedy; 12 pages; price 10¢.

(1231b) A2.0–Business Dealings With the Architect and the Contractor (Vol. 45, No. 31; April 22, 1948); prepared by J. T. Lendrum, F. M. Lescher, and W. H. Scheick, with the assistance of Consultant G. F. Oman of Ohio State University; M. H. Kennedy, editor;–6 pages, price not stated, but probably 10¢.

(1231c) B1.1–Selecting a Livable Neighborhood (Vol. 42, No. 33; April 3, 1945); prepared by K. B. Lohmann and J. T. Lendrum.–4 pages; price not stated, but probably 10¢.

(1231d) B2.1–A Guide to Selecting the Home Site: the Individual Urban Lot (Vol. 42, No. 18; December 19, 1944); prepared by R. M. Nolen, O. G. Schaffer, K. B. Lohmann, F. B. Robinson, W. H. Scheick, D. B. Lindsay, A. K. Laing, and J. T. Lendrum–4 pages; price not stated, but probably 10¢.

(1231e) B3.0–Fundamentals of Land Design (Vol. 44, No. 55; May 12, 1947); prepared by S. White with the assistance of Consultants H. W. Gilbert, O. G. Schaffer, and W. H. Scheick. Edited by M. H. Kennedy.–8 pages; price not stated, but probably 10¢.

(1231f) C2.1–Designing the Home: How to Select a Plan (Vol. 42, No. 45; June 26, 1945); prepared by A. K. Laing, J. T. Lendrum, D. B. Lindsay, and W. H. Scheick.–8 pages; price not stated, but probably 10¢.

(1231g) C3.2–Solar Orientation in Home Design (Vol. 42, No. 25; February 6, 1947); prepared by W. H. Scheick and L. B. Lindsay.–4 pages; price not stated, but probably 10¢.

(1231h) C5.1–Household Storage Units (Vol. 50, No. 42; January 1953); prepared by Helen E. McCullough; illustrated by W. S. Pusey; edited by M. H Kennedy.–12 pages; price: 10¢.

(1231i) C5.11–Storage Partitions (Vol. 51, No. 12; September 1953); prepared by W. H. Kapple, with the assistance of Consultants R. A. Jones and J. T. Lendrum; illustrated by J. J. Sorbie; edited by M. H. Kennedy.–8 pages; price: 10¢.

(1231j) C5.31–Cabinet Space for the Kitchen (Vol. 46, No. 43; February 1949); prepared by Helen E. McCullough, with the assistance of Architectural Consultants E. M. Ranney and W. H. Scheick; edited by M. H. Kennedy.–8 pages; price: 10¢.

(1231k) C5.32–Kitchen Planning Standards (Vol. 47, No. 19; October 1949); prepared by Elizabeth M. Ranney, with the assistance of Consultants Helen E. McCullough and W. H. Scheick; edited by M. H. Kennedy.–8 pages; price: 10¢.

(1231-l) C7.2–A Basic Farmhouse Plan (Vol. 45, No. 14; October 1947). Prepared by D. G. Carter, H. W. Gilbert, M. R. Goodyear, K. H. Hinchcliff, and W. H. Scheick, consulting committee; R. P. Simon, architectural design; W. S. Pusey, J. S. Baker, and H. E. Schroeder, models and delineation; edited by M. H. Kennedy.–8 pages; price not stated, but probably 10¢.

(1231m) E2.1–Construction Methods (Volume 46, No. 12; September 1948); prepared by J. T. Lendrum and G. Rettberg; edited by M. H. Kennedy.–12 pages; price: 10¢.

(1231n) F4.3–Concrete Floors for Basementless Houses (Vol. 45, No. 73; August 1948); prepared by H. D. Bareither and J. T. Lendrum, with the assistance of Consultants S. Konzo and W. H. Scheick; edited by M. H. Kennedy.–4 pages; price: 10¢.

(1231-o) F6.0–Insulation in the Home (Vol. 43, No. 39; February 1946); prepared by J. T. Lendrum, S. Konzo, A. P. Kratz, and W. S. Harris.–8 pages; price not stated, but probably 10¢.

(1231p) F6.2–Moisture Condensation (Vol. 44, No. 34; January 1947); prepared by Frank B. Rowley, Director, University of Minnesota Engineering Experiment Station.–8 pages; price not stated, but probably 10¢.

(1231q) F7.0–Chimneys and Fireplaces (Vol. 43, No. 17; November 1945); prepared by S. Konzo, J. T. Lendrum, K. H. Hinchcliff, and W. S. Harris.–8 pages; price not stated, but probably 10¢.

(1231r) F11.2–Storm Sash for Double-Hung Windows (Vol. 43, No. 2; August 1945); prepared by A. P. Kratz, S. Konzo, W. S. Harris and W. H. Scheick. 4 pages; price not shown, but probably 10¢.

(1231s) F15.0–Hardware for the Home (Vol. 44, No. 14; October 1946); prepared by M. H. Kennedy and W. H. Scheick. Illustrated by W. S. Pusey.–8 pages; price not stated, but probably 10¢.

(1231t) G3.1–Heating the Home (Vol. 48, No. 71; June 1951); prepared by W. S. Harris, S. Konzo, and R. W. Roose, with the assistance of Architectural Consultant J. T. Lendrum; illustrated by W. S. Pusey; edited by M. H. Kennedy.–12 pages; Price: 10¢.

(1231u) G3.2–Controls for Central Heating Systems (Vol. 49, No. 55; March 1952); prepared by W. S. Harris, S. Konzo, and R. W. Roose of the Engineering Experi-

ment Station; editorial writer: M. E. Hausrath; illustrator: W. S. Pusey; editor: M. H. Kennedy.—8 pages; Price: 10c.

(1231v) G3.5—Fuels and Burners for Domestic Heating; Solid, Liquid, Gas (Vol. 46, No. 78; July 1949); prepared by R. Fellows, W. S. Harris, J. A. Henry, S. Konzo, A. P. Kratz, J. T. Lendrum, and J. C. Miles.—8 pages; price: 10c.

(1231w) G3.61—Homes Planned for Coal or Coke (Vol. 46, No. 70; May 1949; prepared by Rudard A. Jones; edited by M. H. Kennedy.—12 pages; price: 10c.

(1231x) G4.0—Planning for Electricity in the Home (Vol. 43, No. 13; October 1945); prepared by J. O. Kralhenbuehl, M. S. Helm, and W. H. Scheick.—8 pages; price not stated, but probably 10c.

(1231y) G4.4—Communications in the Home (Vol. 43, No. 70; July 1946); prepared by M. S. Helm and W. H. Scheick.—4 pages; price not stated, but probably 10c.

(1231z) G5.0—Plumbing (Vol. 48, No. 15; October 1950); prepared by J. T. Lendrum; illustrated by W. S. Pusey; edited by M. H. Kennedy.—12 pages; price: 10c.

(1231aa) G5.5—Septic Tank Systems (Vol. 44, No. 62; June 1947); prepared by E. W. Lehmann, with the assistance of Consultants H. E. Babbitt and D. G. Carter, and of G. K. Hendaix, Division of Sanitary Engineering, Illinois Department of Public Health; illustrated by W. S. Pusey; edited by M. H. Kennedy.—6 pages; price not stated, but probably 10c.

(1231bb) G6.0—Summer Comfort (Vol. 50, No. 79; July 1953); prepared by S. F. Gilman, W. S. Harris, S. Konzo, R. W. Roose, W. F. Stoecker (Department of Mechanical Engineering); and R. A. Jones and J. T. Lendrum (Small Homes Council); edited by M. H. Kennedy.—8 pages; price: 10c.

(1231cc) H1.0—Interior Design (Vol. 47, No. 72; June 1950); prepared by J. R. Shipley; design and illustrations by W. S. Pusey; edited by M. H. Kennedy.—8 pages; price: 10c.

(1232) THE GOOD HOUSEKEEPING BUILDING FORUM SERIES—This is a series of illustrated booklets on various aspects of home building, prepared and published by the Good Housekeeping Building Forum, of which Joseph B. Mason is Director. Copies of the bulletins described below, which sell for fifty cents each, may be obtained from Good Housekeeping, 57th Street at 8th Avenue, New York 19, N. Y.

(1232a) Booklet No. 1—Foundations and Basements by Joseph B. Mason, Jule R. Von Sternberg, and Ronald Allwork. Drawings by Sigman-Ward.—25 pages; published in 1947.

(1232b) Bulletin No. 2—Heating and Air Conditioning by Joseph B. Mason, Jule R. Von Sternberg, and Ronald Allwork. Drawings by Sigman-Ward.—27 pages; published in 1947.

(1232c) Bulletin No. 3—Insulation, Weather Stripping, Storm Sash; no authors listed.—17 pages; published in 1947.

(1232d) Booklet No. 4—How to Build a Safer Home by Joseph B. Mason; Jule R. Von Sternberg, technical editor; drawings by Frederick L. Hankinson.—25 pages; published in 1948.

(1232e) Booklet No. 5—Electrical Planning in the Home by Jule R. Von Sternberg; Ronald Allwork, technical editor; drawings by Sigman-Ward.—21 pages; published in 1948.

(1232f) Booklet No. 6—The Book of Windows by Joseph B. Mason; Jule R. Von Sternberg, technical editor; drawings by George Cooper Rudolph.—29 pages; published in 1949.

(1232g) Booklet No. 7—Adequate Plumbing by Joseph B. Mason, and Jule R. Von Sternberg, architect; Ronald Allwork, technical editor; drawings by Sigman-Ward.—23 pages; published in 1949.

(1232h) Booklet No. 8—Building Without Tears by Joseph B. Mason; Kenneth Duncan, technical editor; drawings by Sigman-Ward.—31 pages; published in 1950.

PART XIII GLOSSARIES

(1241) A GLOSSARY OF HOUSING TERMS—Compiled by Subcommittee on Definitions, Central Housing Committee on Research, Design, and Construction;—J. Stanley Young, Secretary and Acting Chairman; Building Materials and Structures Report BMS 91; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 3, 1942.—32 pages; Out of print. See your librarian.

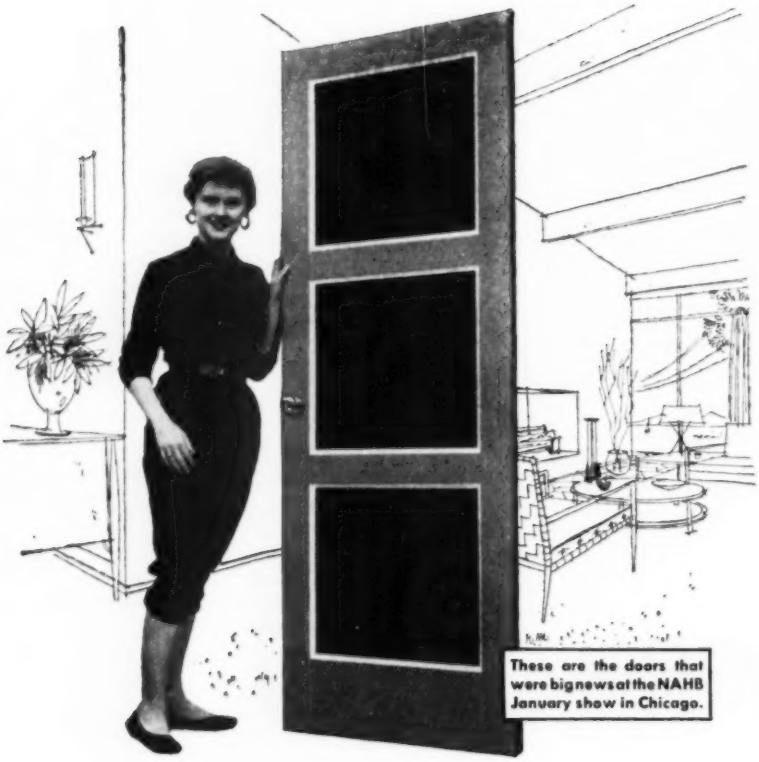
The purpose of this Glossary is to bring together for the convenient use of all persons concerned with housing the generally accepted definitions of a limited number of terms currently used in housing literature with definitions of closely related terms which are not fully defined in their special application to present-day housing in most dictionaries or glossaries. The majority of terms in this Glossary are listed alphabetically. However, for convenience in comparing the definitions of related terms, associated terms have been grouped together alphabetically and listed under the following main terms, which will be found in their alphabetical location in the Glossary: Apartment types; apartment-house types; areas; buildings; construction types; corporation; deed; depreciation; dwelling types; electrical terms; elevator types; estate; fee types; framing systems; grade; grading; halls; house types; housing; land; lot types; lumber; measurements; mortgage loans; mortgage types; occupancy; partition types; plan types; planning; plants; plumbing terms; property types; rafter types; rent; rights; roof types; rooms; space; stairs; stairway types; traffic ways; uses; ventilation; walls; and window types.

PART XIV BIBLIOGRAPHIES

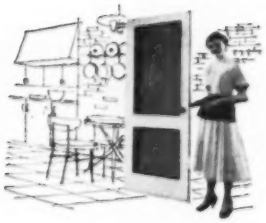
(1261) BUILDING TECHNOLOGY PUBLICATIONS OF THE NATIONAL BUREAU OF STANDARDS—Prepared and Published by the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C., September 6, 1949.—42 pages, mimeographed; price: not stated. Order copies from the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C. In ordering, give the title, and then add: "Letter Circular LC 962."

Includes a consideration of: 1. Scientific Papers (This series was superseded by "Bureau of Standards Journal of Research" in 1928); 2. Technologic Papers (This series was superseded by "Bureau of Standards Journal of Research" in 1928); 3. Research Papers (Reprints of articles appearing in "Bureau of Standards Journal of Research" and in the "Journal of Research of the National Bureau of Standards," the latter being the title of this periodical after July 1934); 4. Building Materials and Structures Reports (Reports on results of Bureau of Standards investigations of properties and suitability of new materials and new methods of construction, for a complete listing of which see item 1233); 5. Building Research Summary Reports. (Mimeographed summary reports, including mention of one or more other publications on the particular subject treated); 6. Building and Housing (Reports of investigations and recommended requirements for building and housing. A discontinued series.); 7. Circulars (Compilations of information on various subjects related to the Bureau's scientific, technical, and engineering activities; 8. Handbooks (Recommended codes of engineering and industrial practice, including safety codes, developed in cooperation with the national organizations and others concerned); 9. Commercial Standards (Voluntary recorded standards agreed upon by producers, distributors, and consumers, covering terminology, types, classifications, grades, sizes, and use characteristics of manufactured products; 10. Simplified Practice Recommendations (Recommendations developed by voluntary cooperation among manufacturers, distributors, consumers, and others interested, for reduction of excessive variety of manufactured products); 11. Miscellaneous Publications (Material which does not fit into any other series); 12. Letter Circulars (Mimeographed documents designed to answer any requests for information); 13. Unnumbered documents (Material not assigned to any series); 14. Subject Index (Names of various building materials and general topics, under which are given, by series letter and number, the publications listed in full in parts 1 to 12.

ABSTRACT. The work lists publications of interest to those concerned with the design, planning, construction, maintenance, repair, and remodeling of buildings of all kinds, as well as those concerned with the production and use of building materials.



These are the doors that were big news at the NAHB January show in Chicago.



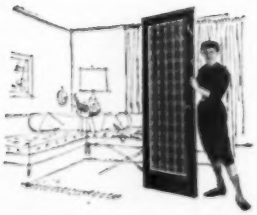
News in doors...

Builders' plans for '54 promise more home for the money . . . more color . . . more texture. In this kind of planning re-styled fir picture panel doors are big news. The idea of treating doors as decorator pieces (instead of barriers) is catching on like grassfire and providing exciting sales appeal for new homes.

These brilliant new low cost doors serve as palettes for home owners to create colorful and dramatic features that complement a room.

Planning homes that include fir panel doors is good style sense . . . good building sense . . . good selling sense.

FIR PICTURE-PANEL DOORS



The traditional dependability of fir panel doors has not changed. They're still craftsman-made to rigid industry and U. S. Commercial Standards. The finest straight grain Douglas fir, the same meticulous detailing is still standard to West Coast fir door manufacturers. Cost? Lower than most doors on the present market. Call your regular supplier or write Fir Door Institute, Tacoma 2, Washington.

FDI Industry grade-trademark signifying independent inspection assures manufacture and quality called for in U. S. Commercial Standards.

(1262) SELECTED REFERENCES ON HOUSING OF MINORITIES—Prepared and published by the Housing and Home Finance Agency, Office of the Administrator, Racial Relations Service, in September 1951.—60 pages, mimeographed, hard covers; price: not stated. Order copies from Housing and Home Finance Agency, Office of the Administrator, Racial Relations Service, Washington 25, D. C.

Includes a consideration of: 1. Books (pages 1-5); 2. Pamphlets (pages 6-25); 3. Periodicals (pages 26-56); 4. Congressional Hearings (pages 57-59); and 5. Bibliographies (page 60).

ABSTRACT. This booklet lists 587 articles or documents, devoting three or four lines to each item. The title, author, date and place of publication (or magazine in which included) are given, and also the number of pages. Prices are not shown.

(1263a) COOPERATIVE HOUSING: UNITED STATES, DENMARK, GREAT BRITAIN, FRANCE, SWITZERLAND, HOLLAND, NORWAY, SWEDEN (A Bibliography on Housing Built or Managed Cooperatively)—Compiled in the Library of the Office of the Administrator, Housing and Home Finance Agency, by Mrs. Marjorie W. Landis, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Washington, D. C., February 1950.—53 pages, multilithed; price: not stated. Order copies from Housing and Home Finance Agency Library, Washington, D. C.

Includes a consideration of: 1. Scope and Method; 2. Reference Sources; 3. United States; (a) General; (b) Financing; (c) Legislation and legal aspects; (d) Organization and Management; (e) Taxation; (f) Individual States (i) California; (ii) District of Columbia; (iii) Georgia; (iv) Idaho; (v) Illinois; (vi) Indiana; (vii) Louisiana; (viii) Massachusetts; (ix) Michigan; (x) Minnesota; (xi) New Jersey; (xii) New York; (xiii) North Carolina; (xiv) Ohio; (xv) Oklahoma; (xvi) Pennsylvania; (xvii) Utah; (xviii) Virginia; (xix) Washington; (xx) Wisconsin; 4. Europe; (a) General; (b) Individual Countries; (a) Denmark; (b) France; (c) Great Britain; (d) Holland; (e) Norway; (f) Sweden; (g) Switzerland; 5. Index to Authors, Projects, and Organizations.

ABSTRACT. This bibliography has been prepared to meet the need for a guide to experience and opinion in the field of cooperative housing.

(1263b) SUPPLEMENT NO. 1 TO "COOPERATIVE HOUSING: UNITED STATES, DENMARK, GREAT BRITAIN, FRANCE, SWITZERLAND, HOLLAND, NORWAY, SWEDEN" (A Bibliography on Housing Built or Managed Cooperatively)—Compiled in the Library of the Office of the Administrator, Housing and Home Finance Agency, by Mrs. Marjorie W. Landis, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Washington, D. C., February 1951.—21 pages, multilithed.

Includes a consideration of: 1. United States; (a) General; (b) Legislation; (c) Section 213; (d) Individual States; (i) California; (ii) Connecticut; (iii) District of Columbia; (iv) Florida; (v) Georgia; (vi) Illinois; (vii) Louisiana; (viii) Massachusetts; (ix) New Jersey; (x) New York; (xi) North Dakota; (xii) Ohio; (xiii) Oklahoma; (xiv) Pennsylvania; (xv) Tennessee; (xvi) Virginia; (xvii) Washington; 2. Europe; (a) General; (b) Individual Countries; (i) Great Britain; (ii) Holland; (iii) Norway; (iv) Sweden; (v) Switzerland; 3. Index to Persons, Projects, and Organizations.

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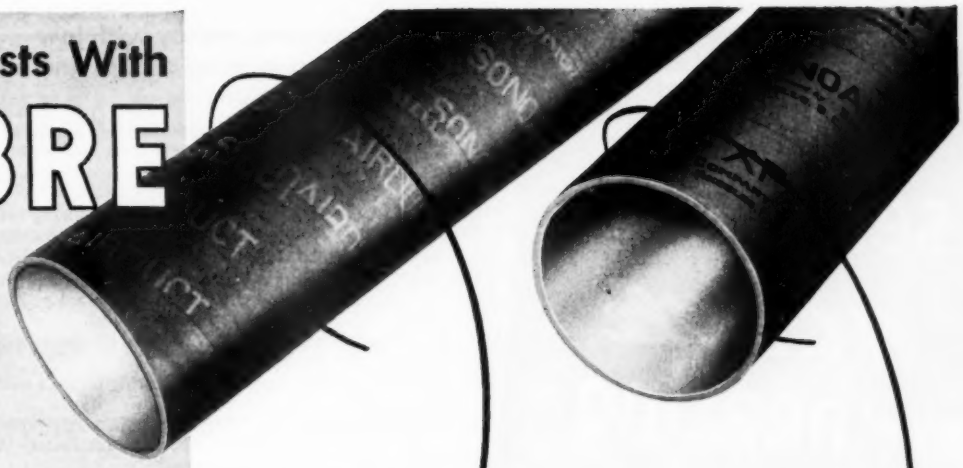

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SONOAIRDUCT-XP fibre duct saves you time, labor and money in crawl, basement and attic space, gas or oil fired warm air systems as supply or return lines. It is lined with aluminum foil and wrapped outside with 16-lb. asbestos, with an equivalent insulation value of 26 ga. metal duct with HALF INCH fibre glass insulation! 2″ to 36″ I.D., up to 50 ft. long. Fits all standard metal fixtures.

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H. C. LITTLE OIL FURNACES are the ONLY vaporizing units listed by the U. L. for low-cost, high-heat No. 2 oils.

H. C. LITTLE GAS FURNACES are the best engineered on the market.

THE FIRST electric ignition vaporizing oil heating equipment and THE FIRST successful oil floor furnace were introduced by H. C. Little. Now widely imitated—they have never been equalled.

SPACE-SAVING DESIGN is an H. C. Little feature—to reduce installation expense and cut building costs.

25 YEARS EXPERIENCE in residential heating means sound knowledge of YOUR problems.

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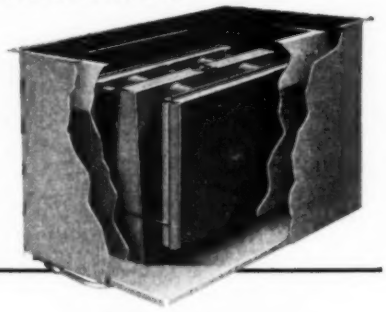
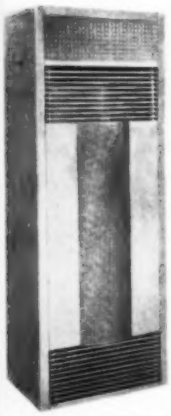
Pictured here are a few of our most popular units. Dozens of other models, for oil or gas, are available for installation in the basement, in the floor, at floor level, in the wall and in the attic.

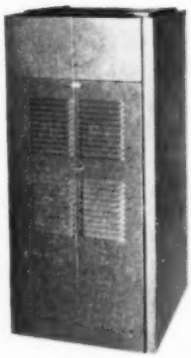
OIL FLOOR FURNACE—the FIRST fully automatic electric ignition oil floor furnace! Special device permits heat even if electric power fails! The only unit of its type U. L. listed for low-cost, high-heat No. 2 oils! Efficient, compact, big heat output, factory guaranteed. Also Dual Register and Shallow models. 50,000 to 80,000 BTU output.

GAS FLOOR FURNACE—Porcelain-enameled heat exchanger and heat traps standard equipment, *no extra cost*, backed by liberal Warranty! Automatic operation, thermostat controlled. No connection to house current needed—heat even in case of power failure! Space-saving design. Efficient, silent operation. AGA Approved. Also Dual Register models. 25,000 to 70,000 BTU input.





OIL WALL FURNACE—The FIRST oil wall furnace! A terrific value in small-home heating! No ducts, no wasted floor space. Perfect for compact, modern homes without basements, especially those built on a concrete slab. Features radiant panel on living room side, plus warm air discharge and cool air return both sides. 100% self-lighting electric ignition, thermostat controlled. Special device permits heat even if electric power fails! U. L. listed for low-cost, high-heat No. 2 oils. Compact, silent, safe. 40,000 to 65,000 BTU output.



UP-FLOW FORCED AIR OIL FURNACE (Model U-AC)—Compact, upright design saves floor space—occupies only 5¾ sq. ft.—cuts building costs. U. L. listed for 1" clearance at sides and back—ideal for closet or utility room. Silent, clean, economical, trouble-free, extremely efficient. 82,000 BTU output. Other oil models to 120,000 BTU. "CF" gas models, 70,000 to 200,000 BTU input.

DOWN-FLOW FORCED AIR OIL FURNACE (Model DF-AC)—Especially engineered for perimeter heating—occupies only 5⅛ sq. ft. floor space. U. L. listed for zero clearance at sides and back! Silent burner, quiet blower. Amazingly efficient operation. 92,000 BTU output. "CI" gas models, 60,000 to 160,000 BTU input.

Look for your nearest H. C. Little Dealer

in the "Where to Buy It Locally" section of this issue or in your Phone Book Yellow Section. Or write the Factory for the name and address of your nearest Dealer.

FAST SERVICE available from numerous warehouse stocks. Full information offered by Distributors in areas indicated. Dealers Coast to Coast.

H.C. Little Burner Company, Inc.

Head Office & Factory
San Rafael, Calif.

1954 American Builder Directory

THIS, the fourth issue of the annual directory compiled by the *American Builder*, gives the latest and most complete product and data information in the building field. Here contractors, builders, architects, and building material retailers will find information as to building products, their manufacturers, and brand names.

Section I—an alphabetical list of building products and equipment and their manufacturers;

Section II—an alphabetical list of brand names identified with names of manufacturers;

Section III—an alphabetical list of manufacturers' local distributors—a guide to where to buy it locally.

This year round reference directory is designed to serve the builder, contractor, architect and dealer. As every effort was made to make it as accurate as possible, the *American Builder* cannot be responsible for changes in names, addresses and other discrepancies.

SECTION I

Alphabetical List of

Building Products and Equipment Manufacturers

IN THIS SECTION I, building products and equipment are listed in alphabetical order with the manufacturers of these products and equipment listed under the appropriate titles. No cross references have been used in this section. The editors feel that the readers of the *American Builder* are well acquainted with the terms employed in the building industry and can lead themselves to the items in this directory. The principal proper nouns of classifications are the key words used in forming the alphabetical lists; for example, wood double hung windows are listed as—

▶ WINDOWS, DOUBLE HUNG, WOOD

The names of manufacturers who advertise in American Builder are printed in boldface

A

▶ ABRASIVE PAPER & CLOTH

Abrasive Prods Inc 100 Pearl South Braintree Mass
AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Armour & Co Sandpaper Div 1353 W 31st Chicago 9 Ill
Atlas Abrasives Corp 461-12th Brooklyn NY
Bay State Abrasive Prods Co Union St Westboro Mass
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Carborundum Corp Buffalo Av Niagara Falls NY
Clover Mfg Co 333 Main Norwalk Conn
GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND
Macton Glue Mfg Co 611 Broadway New York 12 NY
Macklin Co 2914 Wildwood Rd Jackson Mich
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Sandpaper Inc 83 E Water Rockland Mass

▶ ACOUSTICAL MATERIALS

Adel Clay Prods Co 1118 Mulberry Des Moines 9 Iowa
Air-O-Cel Co 22000 Woodward Av Detroit 20 Mich
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
E G Building Fasteners Corp 101 Park Av Room 1133 New York 17 NY
Eastern Machine Prods Co 1601 Wicomico Baltimore 30 Md
Hansson (Elof) Inc 220 E 42nd New York 17 NY
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
INSULITE CO DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBY & MATTISON CO BUTLER AV AMBLER PA
Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio
Kimberly-Clark Corp 128 N Commercial Neenah Wis
Lockport Cotton Batting Co Elmwood Av Lockport NY
Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO
Porete Mfg Co Porete Av North Arlington NJ
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Simpson Logging Co White Bldg Seattle 1 Wash
Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
Tach-Fast Mfg Co Lonaconing Md
Taylor Bedding Mfg Co Taylor Tex
Texas Vermiculite Co 303 Brazos Austin Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Utah Pioneer Corp 333 W 1st S Salt Lake City Utah
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

▶ ADHESIVES

A & F TILEBOARD CO LEE & ROY ST BOX 4085 ALEXANDRIA LA
Abesto Mfg Co 131 Wabash Michigan City Ind
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Air Temperature Inc 283 Poplar Av Memphis 3 Tenn
Alloy Tile Corp 100 Roosevelt Av Belleville NJ
Ambroid Co 305 Franklin Boston 10 Mass
AMERCO PLASTICS 177 BROADWAY NEW YORK 7 NY
American Bitumuls & Asphalt Co 200 Bush San Francisco Cal
American Rubber Prods Corp 151 E 50th New York 22 NY
American Varnish Co 1140 N Branch Chicago 22 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Atlas Mineral Prods Co Mertztown Pa
Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex
B & T Metals Co 425 W Town Columbus 16 Ohio
Barclay Mfg Co 385 Gerard Av Bronx NY
Barrett Div Allied Chemical & Dye Corp 2112 Sylvan Av Toledo Ohio
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Borden Co Chemical Div 350 Madison Av New York 17 NY
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS TENN
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Cambridge Tile Mfg Co Box 17 Cincinnati 5 Ohio
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 SO LASALLE CHICAGO 3 ILL
Christy Co Inc 4464 Duncan St Louis 10 Mo
Coated Abrasives Dept Adhesive Div Armour & Co 1355 W 31st Chicago 9 Ill
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
Congoleum-Nairn Inc 195 Belgrave Dr Kearny NJ
Consumers Glue Co 1515 Hadley St Louis 6 Mo
Dad & Lad Co New Lenox Ill
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
Dennis Chemical Co 2701 Papin St Louis Mo
Du Pont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY
Flexrock Co 36th & Filbert Philadelphia 4 Pa
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY

Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Gibbs Boardtile Corp of America 615 N Aberdeen Chicago 22 Ill
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
HIGGINS INC BOX 8001 NEW ORLEANS LA
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lehon Co 4425 S Oakley Chicago 9 Ill
Lino-Paste Co 3321 S Pulaski Rd Chicago Ill
Madison Glue Corp 200 W 34th New York 1 NY
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
MASTIC TILE CORP OF AMERICA N MONTGOMERY NEWBURGH NY
MIDCONTINENT ADHESIVE CO 70 W PARK GROVE CITY OHIO
Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Monsanto Chemical Co Plastics Div 100 Monsanto Av Springfield 2 Mass
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL
MORTELL (J W) CO 350 N HOBBIE KANKAKEE ILL
MOULTILE INC N MONTGOMERY ST NEWBURGH NY
National Adhesives Div National Starch Prods Inc 268 Madison Av New York 16 NY
National Casein Sales 601 W 80th Chicago 20 Ill
Nicholson & Co 161 First Cambridge 42 Mass
Old American Roofing Mills Div of The Ruberoid Co 500 Fifth Av New York 36 NY
Pabco Prods Inc 475 Brannan San Francisco Cal
Patent Cereals Co Bradford St Geneva NY
PECORA PAINT CO INC 4TH & RDG RR PHILDELPHIA 40 PA
Perkins Glue Co 652 Cannon Av Lansdale Pa
Pioneer Latex & Chemical Co Inc Lincoln Blvd Middlesex NJ
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Placo Div Paisley Prods Inc 718 Washington Av N Minneapolis Minn
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
Plymold Co 2707 Tulare Av Burbank Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Prestile Mfg Co 5850 W Ogden Av Chicago 50 Ill
Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
S & W Moulding Co 990 Parsons Columbus 6 Ohio
Sauereisen Cements Co 1045 N Canal Pittsburgh 15 Pa
Schalk Chemical Co 351 E 2nd Los Angeles Cal
Selck (Walter E) & Co 223 W Hubbard Chicago 10 Ill
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Shinglstik 7600 Truman Rd Kansas City Mo
Sisk (R J) Co New London Conn
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill
Sullivan Co 212 E Trigg Memphis Tenn
Superior Wall Prods Co 4401 N American Philadelphia 40 Pa
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tex-A-Panel Mfg Co 10848 Harry Hines Blvd Dallas Tex
Thomas Moulding Floor Co Inc 325 N Huron Chicago 10 Ill
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC
Tylac Co Monticello Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Varlar Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill
Wall-Tile Mfg Co 5850 W Ogden Cicero Ill
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo
Webb Prods Co 216 S "G" San Bernardino Cal
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass
Wesco Waterpaints Inc Maple St Matteson Ill
White Adhesives Co 2 Harrington Newtonville Mass
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

ADMIXTURES, CONCRETE AIR-ENTRAINING

American Flursit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Autolene Lubricants Co 1331 W Evans Denver Colo
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
Dewey Almy Chemical Co Cambridge Mass
Master Builders Co 7016 Euclid Av Cleveland 3 Ohio
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

ADVERTISING NOVELTIES & AIDS

Advertisers Exchange Inc 381-4th New York 16 NY
Advertisers' Mfg Co Ripon Wis
Allied Cloth Specialties Inc Greenville Ohio
Alto Mfg Co 1847 W Wolfram Chicago 13 Ill
Berg (F O) Co Spokane Wash
Bertram Co 49 N Hutchinson Philadelphia Pa
Canton Glass Co Inc Marion Ind
Clifton Mfg Co 323 Pleasant East Waco Tex
Colonial Knife Co Inc 287 Oak Providence RI
Cyclone Seeder Co Urbana Ind
Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
Economy Novelty & Printing Co 227 W 39th New York 18 NY
Garrison-Wagner Printing Co 2018 Washington St Louis Mo
Gerson (Louis M) 98 Deering Rd Mattapan 26 Mass
Grammes (L F) & Sons Inc 380 Union Allentown Pa
Holman Co Main at 6th Frisco Tex
Imperial Knife Associated Cos Inc 1776 Broadway New York 19 NY
Kees (FD) Mfg Co 700 Park Av Beatrice Neb
Kemper-Thomas Co Norwood Park Cincinnati 12 Ohio
Lawrence Engineering Service 98 Smith Peru Ind
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
M & H Display Alhambra Cal
MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY
May (JL) Co Inc 111 W 19th New York 11 NY
Meyer-Both Co 1935 S Michigan Av Chicago Ill
Murphy (Thomas D) Co Red Oak Iowa
National Plan Service Inc 1700 W Hubbard Chicago Ill
Newman (Rudolph) Lithographing Co 400 S Jefferson Chicago Ill
Parisian Novelty Co 3510 S Western Av Chicago 9 Ill
Renco 4372 W Ogden Av Chicago 23 Ill
Robeson Cutlery Co Inc 3646 Case Perry N Y
Russell Harrington Cutlery Co 44 River Southbridge Mass
Shedd-Brown Mfg Co 311-321 5th Av S Minneapolis Minn
Standard Awning Co 83 Avon Hartford 5 Conn
STANLEY WORKS 111 ELM AV NEW BRITAIN CONN
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Voos Co New Haven Conn
Wagner Awning & Mfg Co Scranton & Barber Avs Cleveland 1 Ohio
Waterbury Cos Inc S Main Waterbury Conn

ADVERTISING SERVICES

Advertisers Exchange Inc 381 4th New York 16 N Y
Bradham & Co Piedmont Bldg Greensboro N C
DODGE (F W) CORP 119 W 40TH NEW YORK 18 NY
Edwards (Vincent) & Co 342 Madison Av New York N Y
Ford Advertising Agency Box 428 Enid Okla
Hadley Lindsey Co 20 S Broadway Yonkers 2 N Y
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Lil-Ad Features RFD 3 Santa Ana Cal
Local Trademarks Inc 87 Madison New York 16 N Y
Material Dealers Newspaper Mat Service Box 428 Enid Okla
Meyer-Both Co 1935 S Michigan Av Chicago Ill
Norm Advertising 79 Madison Av New York 16 N Y
Stevens Advertising Agency 317 Board of Trade Bldg Indianapolis Ind
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wen Prods Inc 5806 Northwest Hwy Chicago 31 Ill
Worldwide Syndicate Construction Bldg Dallas 2 Tex

AGGREGATES, LIGHTWEIGHT

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill
American Perlite Corp Richmond Cal
American Silica Sand Co Ottawa Ill
Black (John H) Co 505 Delaware Buffalo 2 N Y
Carolina Perlite Co Box 158 Salisbury N C
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL
Gregg Prods Co 646 Chestnut S W Grand Rapids 2 Mich
HIGGINS INC BOX 8001 NEW ORLEANS LA
Hydraulic-Press Brick Co 705 Olive St Louis Mo
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio
Maguire (Walter) Co Inc Peekskill NY
Masco Perlite Inc Houston 7 Tex
Massillon Refractories Co 1939 Prentice Massillon Ohio
McNear Brick Co San Rafael Cal
Midwestern Perlite Corp Oklahoma City Okla
Panacalite Div Combined Metals Reduction Co 202 Felt Bldg Salt Lake City 1 Utah
Panacalite Perlite Inc 311 S 5th Kansas City Kan
Perlite Mfg Co Arch St Ext Box 478 Carnegie Pa
Perolite Prods Sausalito Cal
Precast Slab & Tile Co 1367 S Kingshighway Blvd St Louis 10 Mo
Robinson Insulation Co Box 1419 Great Falls Mont
Schundler (F E) & Co Inc 504 Railroad Joliet Ill
Silbrico Corp 5901 W 66th Chicago 38 Ill
Sisco Vermiculite Mines Ltd 907 Dominion Square Bldg Montreal Que Canada
Sno-Lite Prods Co Box 58 Reno Nev
Standard Perlite Co 202 N Euclid Av Pasadena Cal
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tennessee Prods & Chemical Corp 500 First American Nat'l Bank Bldg Nashville 3 Tenn
Texas Vermiculite Co 303 Brazos Austin Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vermiculite-Northwest Inc 2107 N 34th Seattle Wash
Vermiculite Prods Inc 515 Madison Kansas City Mo
Virginia Perlite Corp Box 687 Hopewell Va
Waylite Co 105 W Madison Chicago 2 Ill
Western Brick Co Danville Ill
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

AGITATORS, PAINT

Arlington Corp 368 Jenks Av St Paul 6 Minn
Day (J H) Co Harrison & Lyons Aves Cincinnati 22 Ohio
DeVilbiss Co 300 Phillips Toledo 1 Ohio
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Fanner Mfg Co Brookside Park Cleveland 9 Ohio
Harbil Mfg Co 325 W Ohio Chicago 10 Ill
Holt Mfg Co 651-681 Twentieth Oakland 12 Cal
International Engineering Inc 1200 Bolander Av Dayton 1 Ohio
Miller Mfg Co 9425-45 Seymour Av Schiller Park Ill
Miracle Paint Rejuvenator Co 500 Robert St Paul 1 Minn
Paasche Airbrush Co 1909 W Diversey Pkwy Chicago 14 Ill
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill

AIR COMPRESSORS

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
Binks Mfg Co 3124 W Carroll Av Chicago Ill
Brunner Mfg Co 1821 Broad Utica 1 NY
C & H Electric Co 436 W Juneau Av Milwaukee 3 Wis
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Davey Compressor Co North Water & Cook Kent Ohio
DeVilbiss Co 300 Phillips Toledo 1 Ohio
Electric Sprayit Co 1415 Illinois Av Sheboygan Wis
Essick Mfg Co 1950 S Santa Fe Av Los Angeles 21 Cal
Gardner Denver Co 100 Williamson Quincy Ill
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
Ingersoll-Rand Co 11 Broadway New York 4 NY
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO
Johnson (C S) Co Box 71 Champaign Ill
Paasche Airbrush Co 1909 W Diversey Pkwy Chicago 14 Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Saylor-Beall Mfg Co 401 Kibbie St Johns Mich
United States Air Compressor Co 5300 Harvard Av Cleveland Ohio
Worthington Corp S Second Plainfield NJ

AIR CONDITIONERS

Acme Industries Inc 600 N Mechanic Jackson Mich
Admiral Corp 3800 W Cortland Chicago 47 Ill
AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
American Blower Corp Div American Radiator Standard Sanitary Corp Tireman Av at Roselawn Detroit 32 Mich
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind
Anemostat Corp of America 10 E 39th New York 16 NY
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
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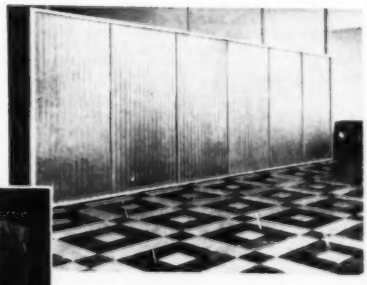

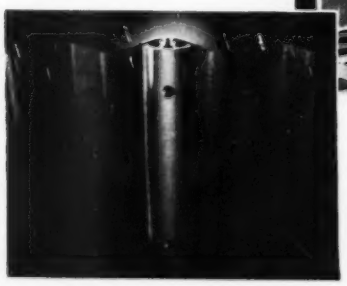

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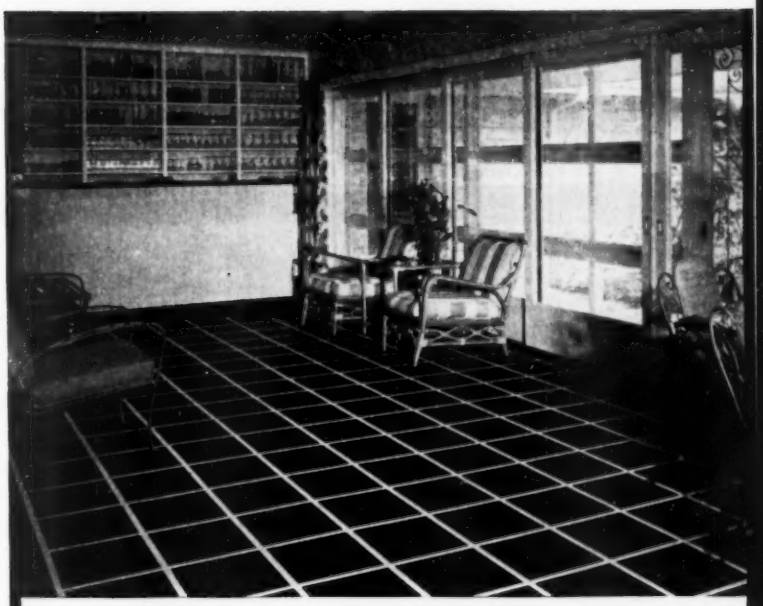

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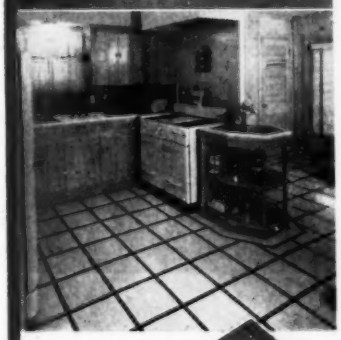

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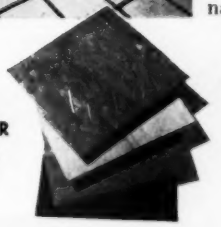

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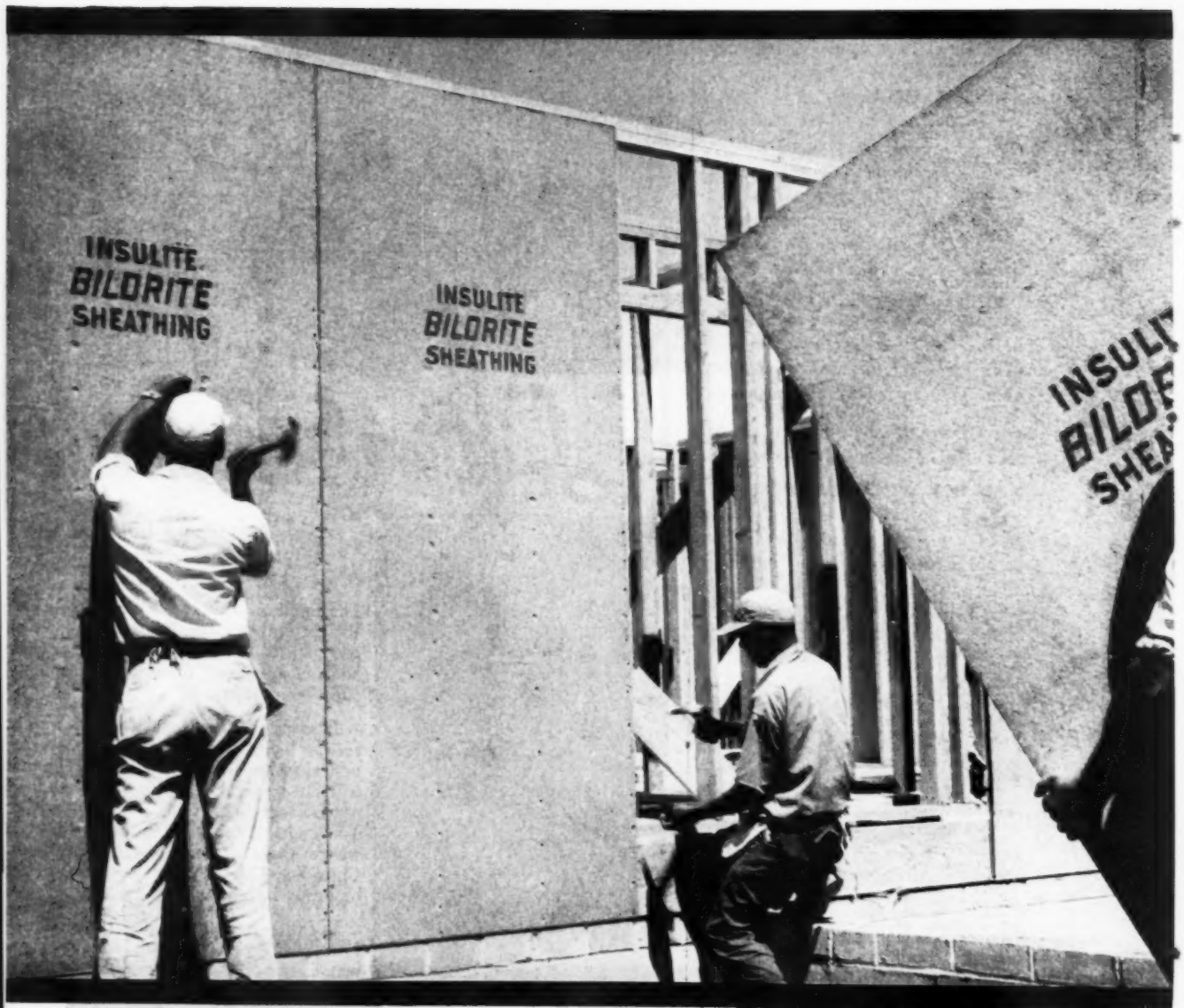

*Robert Kasin, left, and William Synek, builders of Shadowbrook Homes, Islip, N.Y., reduce costs $175 per home with the Insulite products shown here. Try these ideas on your next job. Any one of them can help you build better . . . for less!

builder-partners* with Insulite!

1 **Shadowbrook Homes Saved $150** per home with the Bildrite (left) and Shingle-Backer (below) combination. With Bildrite, one man can sheath 1,000 sq. ft. in 8 hours or less. Cuts application time as much as 43%. 4′ Bildrite eliminates the need for corner-bracing and building paper. Since Bildrite is waterproofed throughout with asphalt, it can be stored outdoors, left exposed to the weather indefinitely.

2 **Shingle-Backer Cuts Application Time in Half.** Four-foot panels produce deep, modern shadow line. Practically eliminate waste. Can be used or stored anywhere in any weather because Shingle-Backer is waterproofed throughout with asphalt. Approved for application directly over Bildrite sheathing.

3 **Primed Graylite for Soffits and Porch Ceilings Saved $25** per job on the Shadowbrook Homes project. Made of the same material as tough, weather-resistant Bildrite, Primed Graylite is primed at the factory for easy painting. Ends delamination problem. Available in ½″ and ¾″ thicknesses, 4-foot widths, 6 to 12-foot lengths.

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21 quality homes like this in the $20,000 to $30,000 range make up the Shadowbrook Homes project. The split-level homes feature walkout basements, cathedral type center hall. Architect: John Wade, Forest Hills, N. Y.

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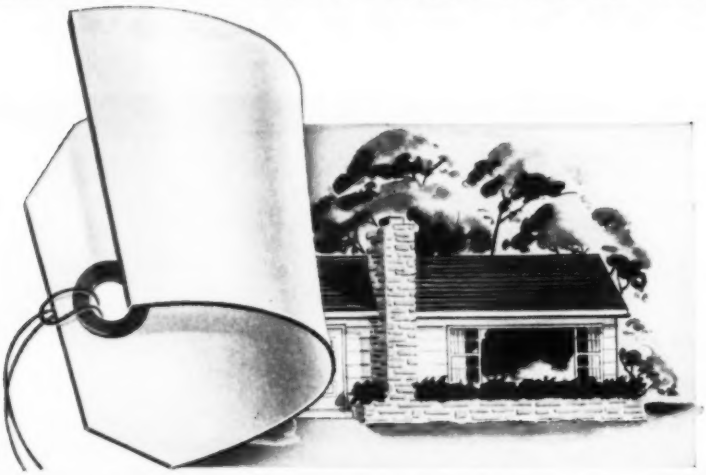

FOR THE "EXTRAS" PREFABRICATION GIVES YOU

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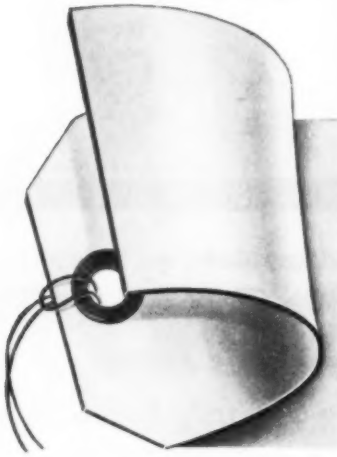

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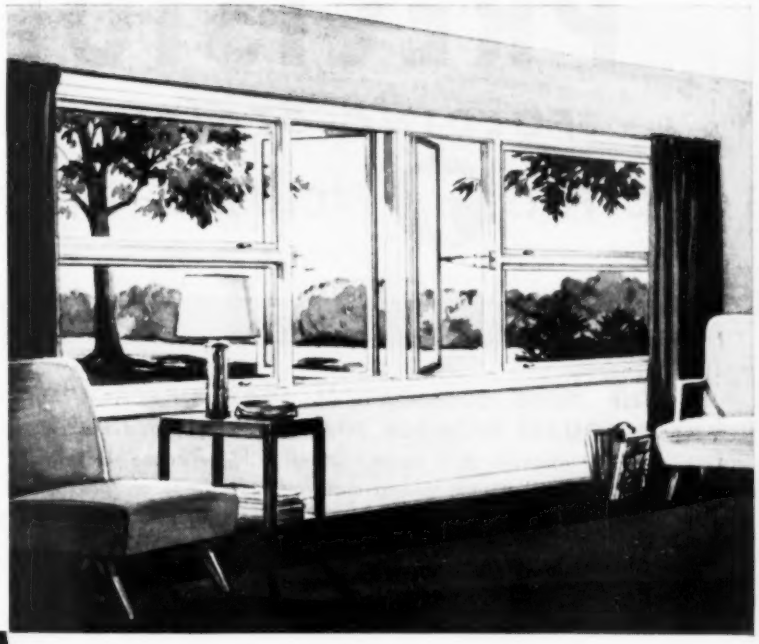
Architectural styles change—and modern window research must meet the demands for new and improved designs. For example, the Curtis Convertible Wood Window Unit, shown here, represents an entirely new concept in frame and sash construction. The individual units may be installed singly or in any desired combination of multiples—stacked in both width and height. Convertible Units may be used as right- or left-swing casements—awning windows—swing-in hopper-type sash and a thousand or more different window combinations that fit any wall construction and meet every budget.



Curtis Silentite Casements offer all of the charm and beauty that only wood casements can provide, but without draft, air leakage, rattling or swinging. The Silentite Casement is trouble-proof! There is no protruding hardware—nothing to rust, rattle or get out of order. In summer Silentite will catch a breeze from every direction—cool, healthful ventilation, but no draft! And in winter, it will reduce by about 16% the heat loss that usually occurs with ordinary casements.

Silentite awning windows allow full ventilation or almost any variety of partially open positions of the individual sash. Sash control is simple—a single crank operates the entire unit. Operating hardware is completely concealed in window frame—sash is held firmly in any position.

Modern, too, is this Curtis Silentite guarantee covering materials and workmanship—convincing proof of the extra value which is built into all Curtis Silentite windows.

The famous Silentite pre-fit double-hung window unit is designed with "floating" weather-strips for maximum weather-tightness. It offers finger-tip ease of operation throughout its life. It is a *modern* window in every sense of the word—made in several sash styles and in all commonly used sizes.

1955 CURTIS WOODWORK SILENTITE PRE-FIT the *Insulated* window

AB-4-54

Curtis Companies Service Bureau
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I am interested in your Silentite Window line. Please send literature.

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PRECISION

FOLDING STAIRWAYS

OFFERS 7 EXCLUSIVE FEATURES *Plus*

5 YEAR *written* **GUARANTEE** furnished with each unit

THE MOST ECONOMICAL WAY OF PROVIDING ADEQUATE STORAGE SPACE! You can add hundreds of feet of valuable attic storage space with the economical, maintenance-free Precision folding stairway. Hundreds of thousands of Precision stairways are now in use in homes in the United States, Canada and Alaska. Precision stairways are sold by more than 12,000 dealers.

2 STANDARD SIZE 8'9" and 9'9". For ceiling heights 7'0" to 8'9" use 8'9". For ceiling heights 8'9" to 9'9" use 9'9". Figure from finished floor to finished ceiling. Not Floor to Floor. Frame is made to fit 26" by 54" opening in ceiling, also 30" by 54" at extra cost.

HIGHEST QUALITY MATERIALS— Constructed of select kiln dried lumber throughout. Brackets, rocker arms and hinges cast in our own foundry. Insulated panel supplied at no extra cost. All parts numbered and interchangeable.

REQUIRES NO ATTIC SPACE— Does not take up valuable storage space. Full height above attic floor is only 36 inches.

SHIPPED IN ONE PACKAGE — Packed complete in one heavy carton, assembled and ready for installation. Shipping weight 115 pounds.

NEW HYDRAULIC SAFETY CHECKS
Prevents slamming of stairway on opening and closing; shuts stairway door tightly and eases stairway into open or shut position quietly and safely.

LIFE-TIME ROLLER BEARINGS
Factory-packed, life-time roller bearings increase ease of operation of the Precision folding stairway to a point that makes operation practically effortless.

ACTUATED BY COUNTERWEIGHTS
The Precision stairway is actuated by cleverly engineered counterweights which close the stairway tight every time. No springs to weaken with constant use, no adjustments are necessary.

INSULATED DOOR PANEL
The door panel is insulated to keep out summer heat from the room below and to save fuel in winter by preventing loss of heat to the attic.

RUGGED AND STRONG
All parts of the Precision folding stairway are secured by bolts and screws. The superior design assures long life plus dependable service under constant use.

FULL WIDTH SAFETY TREADS
Composition safety treads on each step protect step and assure a safe footing. Safety treads also add to appearance of stairway.

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Graduations on runners facilitate cutting off for different ceiling heights, insure a saving on both installation time and cost.

Accepted by* FHA *everywhere!

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into **buyers** *with*

Servel Wonderair

All-Year® Air Conditioning

Be ready for booming public demand . . . get the jump on competition! Offer cooling in summer, heating in winter with one compact unit!

Home buyers are rapidly being conditioned to *expect* air conditioning in the modern home. Soon they will *demand* all-year climate control!

Take the lead in this important trend. Invite your customers to enjoy the benefits of Servel **Wonderair** *All-Year* Air Conditioning. A single unit cools and heats . . . dehumidifies or adds moisture . . . cleans the air . . . ventilates and circulates!

And because of Servel's *exclusive* absorption principle there are *no moving parts* in cooling or heating systems. The result: quiet, vibration-free operation and long life backed by a five-year factory warranty.

Servel **Wonderair** *All-Year* Air Conditioning is available in 2-, 3-, and 5-ton capacities. Cost is remarkably low, sales value extremely high! Send for details.

Right for *the small home! Compact 2-ton model occupies only 2½' x 4' of floor space. 72,000 Btu/hr. heating capacity.*

Popular *3-ton model has capacity for a medium-size house. Costs little more than a "heat-only" system.*

A must *for the luxury home! Servel 5-ton model has led the way to practical all-year residential air conditioning.*

Servel

the name to watch for great advances in

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Midwest Steel Prods Co Kansas City Mo
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Red Tiger Prods Inc 20 N Wacker Chicago 6 Ill
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Star Bit & Tool Co 1015 9th Rockford Ill
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PRODUCT NEWS from AMERICAN-Standard

A review of products in the news and important features worth remembering

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New American-Standard counter tops are a practical and glamorous feature for the modern kitchen. From integral back splash to no-drip water bead edge these counter tops form a continuous, unbroken surface that has no joints or crevices. They're made of Micarta, the plastic material which retains its beauty even after years of daily use, bonded to a sturdy plywood core. The non-directional scatterline design of the tops eliminates any pattern conflict in turning corners or in adding new tops at a later date. Available in Gray, Dark Green, Lime, Yellow, Red. Special new union strips, joint moulding strips and end caps are available as top quality finishing accessories.

NEW GRAY BATHROOM FIXTURES

Beautiful American-Standard bathroom fixtures now are available in another distinctive color—Platinum Gray. Harmonizing perfectly with virtually any decorative scheme, this new color permits wider flexibility in bathroom planning. And Platinum Gray is one color nearly everyone can agree on; a bathroom featuring American-Standard fixtures in this smartly modern color will have outstanding customer appeal. In addition to the new Platinum Gray, you can choose from six other popular American-Standard colors and white. *All colors are true and permanent. They will not dull or fade.*

For further information on American-Standard products see Sweet's Light Construction File.

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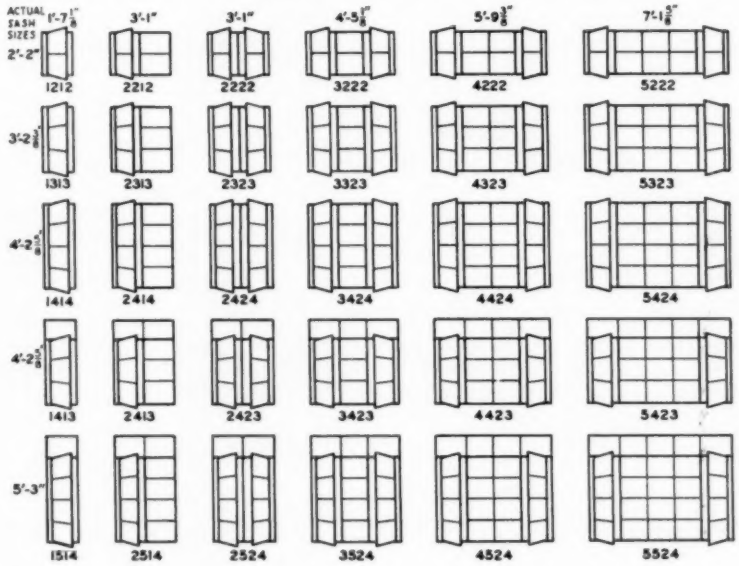

Hope's Combination Inside-Outside Metal Trim is installed as in the illustration below.

HOPE'S COMBINATION INSIDE-OUTSIDE METAL TRIM is easily and quickly installed with all standard sizes of Hope's Steel Casements. Trim fits into rough openings; no finished carpentry is required, either inside or out. Only a few minutes are needed for assembling at the warehouse or on the job.

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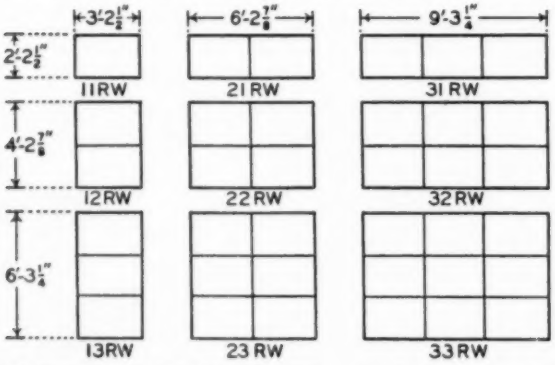

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Reflector Hdwe Corp 2245 S Western Av Chicago 8 Ill
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Warren (J D) Mfg Co Montpelier Ohio
Wilmac Metal Prods 2632 N Central Av Chicago 39 Ill

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Alabama Clay Prods Co 23rd N at 4th Av Birmingham 3 Ala
Alliance Clay Prods Co 1500 S Mahoning Alliance Ohio
Alton Brick Co Alton Ill
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Baltimore Brick Co 3200 E Madison Baltimore Md
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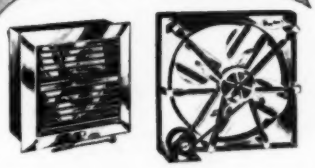

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Chatham Brick & Tile Co Inc Gulf NC
Chehalis Brick & Tile Co Chehalis Wash
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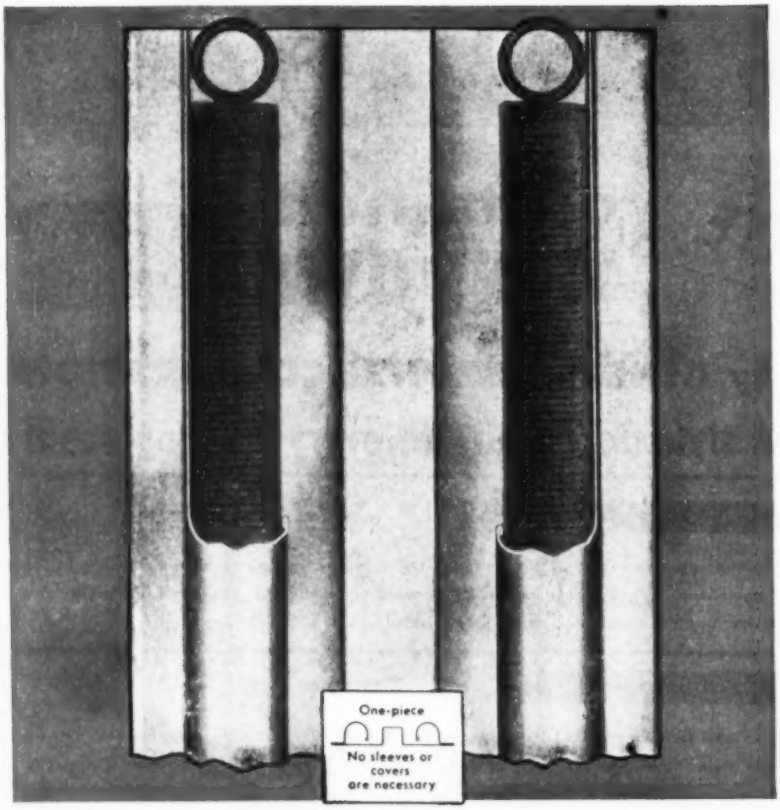

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Standard Clay Mfg Co New Brighton Pa
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Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
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Kalo Brick & Tile Co 1230 1st Avenue S Fort Dodge Ia
Peoria Brick & Tile Co Box 515 Peoria Ill
Streator Brick Co Div Hydraulic-Press Brick Co 321 E Main Streator Ill
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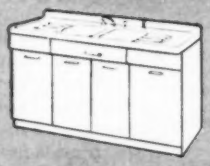

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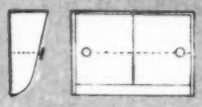
Edge-grain maple counter tops, 15" or 18" wide with 3" integral back-splash. Also vinyl tops in wide range of colors, 15" to 36"!

Food Waste Disposer with continuous feed, lightweight, quiet. Simple, one-man installation!



Condiment cabinet with sliding doors mounts under wall cabinets. Chrome knobs . . . 24" and 30" widths!

This Year

MURRAY

offers builders more than ever before!

In style, construction, unique design, Murray is your wise choice for top kitchen appeal. By actual comparison Murray offers *heavier* steel construction . . . bigger, *roomier* drawers . . . *more* usable space on drainboards . . . genuine *brass* drawer runners . . . *integral* base!

And nowhere can you match the variety of appeals this expanded Murray line offers . . . with an entirely new idea in built-in ranges in color!

See your Murray distributor or write—

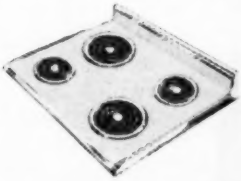
MURRAY

THE MURRAY CORPORATION OF AMERICA

Home Appliance Division—Scranton, Pa.

NEW! IN "SUNSET" COLORS!

Built-in oven in white enamel, with door in stainless steel, or choice of four colors and white porcelain enamel. It's a new way to bring color to kitchen! Fits regular Murray base cabinets at drawer-base or drawer-top level.



NEW! WITH "CONTOUR STYLING!"

Smart cooking tops (24" and 30" width) . . . an original Murray idea! Offered in "Sunset" colors to match oven and styled to match contours of regular cabinet tops! Replaces regular cabinet top. Easy installation. ("Drop-in" flat-rim models [24" x 21" and 32" x 21"] also available.)

Greatest improvement

Coleman® VIT-ROCK

not this...

DIRTY RED WATER
RUST INSIDE TANK

but this...

CLEAN HOT WATER
NO RUST EVER

HERE'S THE SECRET

Flexible rock lining "rolls with the punches" to prevent cracking or chipping. It means longer heater life and clean, trouble-free hot water service.

WHY IT'S A SMART MOVE TO INSTALL COLEMAN VIT-ROCK WATER HEATERS

Now that home buyers are shopping around, it's just plain common sense not to overlook a single plus you can offer them. That's why it pays to install Coleman Vit-Rock Water Heaters. They're definite assets, because they deliver what your prospects want most in a water heater. That's an always plentiful supply of rust-free hot water for every home use and trouble-free hot water regardless of local water conditions. And you can guarantee this—because they're backed by a 10-year warranty!

Six models: In the Coleman Vit-Rock Water Heater line, you have a range of six models to meet your requirements. It's the outstanding line with the revolutionary Vit-Rock lining* that gives longer lasting life plus other exclusive Coleman-engineered features. Ask your distributor or send the coupon at the right for full information. The Coleman Company, Inc., Wichita, Kansas.

Sheldon Coleman, President of The Coleman Company, Inc., says:

"IT'S ENGINEERED TO EXCEL ANY GAS WATER HEATER ON THE MARKET"

"We've designed the Coleman Vit-Rock Water Heater to be better! We've *compared* it with other gas heaters, and we know it will *outperform* and *outlast* them. What's more, its advantages are what home buyers want most—clean, clear, rust-free hot water and plenty of it. Its 10-year warranty is a big selling point, too. You'll find it a real sales asset to install Coleman Vit-Rock Water Heaters."

Also made under the name SHELDON VIT-ROCK.
Coleman Water Heaters also available with galvanized tanks.

in water heater history...

WATER HEATER *10 yr. Warranty*†

GAS LP-GAS

VIT-ROCK COSTS NO MORE!

1

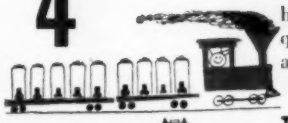
It's brand-new. Known by only a few in the trade, the Vit-Rock process is the most revolutionary development in years. It gives the heater advantages found in no other gas unit.

2

Vit-Rock coating is applied to tank walls by centrifugal force. So great is the force that the surface is *completely* covered; not even a pinhole is left exposed. Vit-Rock cannot be "eaten away" by hard water.

3

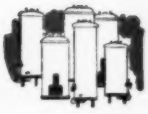
Special attention is paid to details. Flue connections at top and outer lip of tank bottom are specially coated so no metal is exposed to water.

4 

"Safer" to ship and install. Coleman's Vit-Rock lining stands up better because it's tough. This same quality reduces possibility of breakage or damage during installation.

5

The water heater that "breathes." The flexible Vit-Rock lining "gives" with fluctuating pressures; doesn't crack as brittle glass sometimes does. Protects better, lasts longer.

6 

Six models to choose from, each a streamlined beauty with gleaming white plastic enamel outside finish. Fiberglas insulated. Temperature controls readily accessible. 100% safety Shut-Off Valve available on all models for all gases.

Vit-Rock Water Heaters are sold by leading plumbing and heating dealers and gas utilities.

Comfort costs so little with a **Coleman**®

EQUIPMENT AGA APPROVED

†Full unconditional 5-year tank warranty plus 5 additional years pro rata

**Manufactured under the Burwell process*

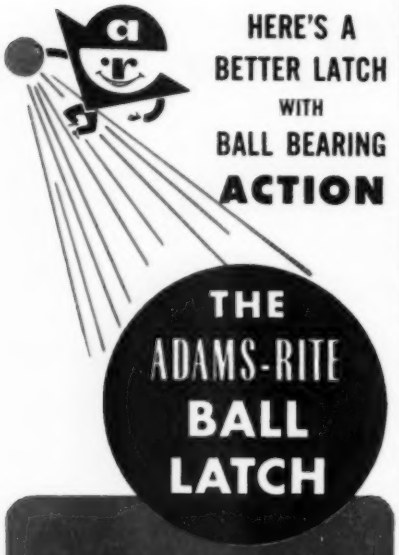
THE COLEMAN COMPANY, INC.
Dept. 851-AB, Wichita 1, Kansas

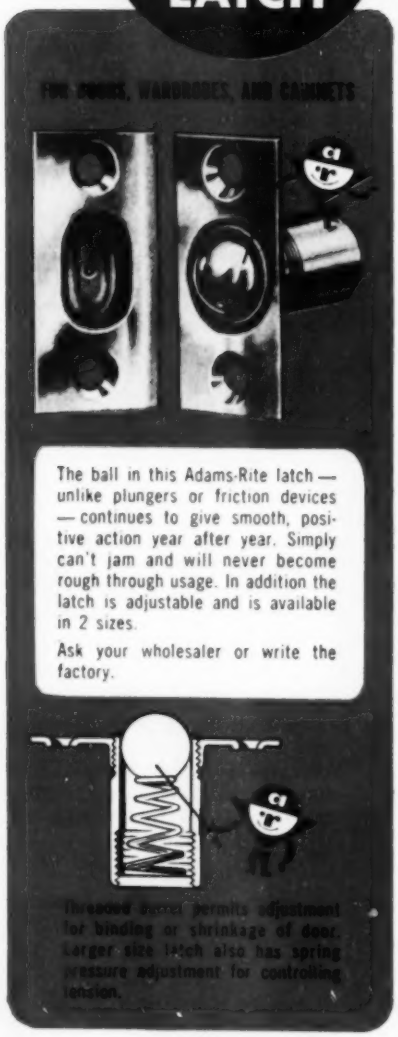
Please send me complete information on the revolutionary new Coleman Vit-Rock Gas Water Heaters.

*Name*_____

*Address*_____

*City*_____ *State*_____





ADAMS-RITE®
MANUFACTURING COMPANY
540 W. Chevy Chase Dr., Glendale 4, Calif.

SPECIALIZED LOCKS AND BUILDERS' HARDWARE

Ohio Can & Crown Co 16th & Harsh Massillon Ohio
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sta-Tite Inc 4020 N Port Washington Av Milwaukee 12 Wis
Weatherguard Service Inc 564 Jackson Av New York 55 NY

BRUSHES, INDUSTRIAL

Bentzinger Bros 317 N Third St Louis 2 Mo
Devoe & Raynolds Co Inc Princeton Ind
Empire Brushes Inc 200 William Port Chester NY
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Illinois Duster & Brush Co 1944 Webster Av Chicago 14 Ill
Michigan Brush Mfg Co 7411 Central Detroit 10 Mich
Milwaukee Brush Mfg Co 2200-40 N 30th Milwaukee Wis
National Brush Co 101 Illinois Av Aurora Ill
Newark Brush Co 255 Michigan Av Kenilworth NJ
Osborn Mfg Co 5401 Hamilton Av Cleveland 14 Ohio
Pittsburgh Plate Glass Co-Brush Div 3221 Frederick Av Dept D-3 Baltimore 29 Md
Rubberset Co 56 Ferry St Newark 5 NJ

BRUSHES, PAINTERS'

American Brush Mfg Co 3121 NE Sandy Blvd Portland Ore
Baker Brush Co Inc Grand, corner Greene St New York 13 NY
Bentzinger Bros 317 N Third St Louis 2 Mo
Berry Bros Inc 211 Leib Detroit 7 Mich
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Empire Brushes Inc 200 William Port Chester NY
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Hanlon & Goodman Co Belleville NJ
Hanna Paint Mfg Co 95 W Long Columbus 15 Okla
Jacobus' (A G) Sons Inc Verona NJ
Kwiksand Inc 529 Merchants Rd Rochester 9 NY
Lowe Bros 436 E 3rd Dayton 2 Ohio
Maendler Brush Mfg Co Inc 138 E 9th St Paul 1 Minn
Markwell Mfg Co 200 Hudson New York 13 NY
Michigan Brush Mfg Co 7411 Central Detroit 10 Mich
National Brush Co 101 Illinois Av Aurora Ill
National Lead Co 111 Broadway New York 6 NY
Osborn Mfg Co 5401 Hamilton Av Cleveland 14 Ohio
Parker (Ira) & Sons Co Oshkosh Wis
Pittsburgh Plate Glass Co Brush Div 3221 Frederick Av Baltimore 29 Md
Plasti-Kote Inc 425 Lakeside Av NW Cleveland 13 Ohio
Pollock Brush Co Easton Pa
Purdy Brush Co 6525 N Lombard Portland 3 Ore
Pushee (J C) & Sons 700 Harrison Boston Mass
Rubberset Co 56 Perry St Newark 5 NJ
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
United Brush Mfrs 116 Wooster New York NY
Whiting-Adams Co Inc 700 Harrison Av Boston 18 Mass
Wooster Brush Co 600 Madison Av Wooster Ohio

BRUSHES, PAPERHANGERS'

Baker Brush Co Inc Grand, Corner Greene St New York 13 NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Empire Brushes Inc 200 William Port Chester NY
Maendler Brush Mfg Co Inc 138 E 9th St Paul Minn
National Brush Co 101 Illinois Av Aurora Ill
Rubberset Co 56 Ferry Newark 5 NJ
Wooster Brush Co 600 Madison Av Wooster Ohio

BRUSHES, ROOFING

Abesto Mfg Corp 131 Wabash Michigan City Ind
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
Bentzinger Bros 317 N Third St Louis 2 Mo
Chicago Brush Co 2153 N Damen Av Chicago 47 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Empire Brushes Inc 200 William Port Chester NY
Hanlon & Goodman Co Belleville NJ
Hanna Paint Mfg Co 95 W Long Columbus 15 Okla
Milwaukee Brush Mfg Co 2200-40 N 30th Milwaukee Wis
Osborn Mfg Co 5401 Hamilton Av Cleveland 14 Ohio
Pittsburgh Plate Glass Co Brush Div 3221 Frederick Av Baltimore 29 Md
Purdy Brush Co 6525 N Lombard Portland 3 Ore

BRUSHES, WINDOW

American Brush Mfg Co 3121 NE Sandy Blvd Portland Ore
Bentzinger Bros 317 N Third St Louis 2 Mo
Chicago Brush Co 2153 N Damen Av Chicago 47 Ill
Empire Brushes Inc 200 William Port Chester NY
Maendler Brush Mfg Co Inc 138 E 9th St Paul 1 Minn
Michigan Brush Mfg Co 7411 Central Detroit 10 Mich
Osborn Mfg Co 5401 Hamilton Av Cleveland 14 Ohio
Pittsburgh Plate Glass Co Brush Div 3221 Frederick Av Baltimore 29 Md

BUCKETS, CLAMSHELL

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS
Erie Steel Construction Co Giest & N P RR Erie Pa
Haiss (George) Mfg Co Inc Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY
Jeffrey Mfg Co 826 N 4th Columbus 16 Ohio
Johnson (C S) Co Box 71 Champaign Ill
Kwik-Mix Co Port Washington Wis
Link-Belt Co 307 N Michigan Av Chicago 1 Ill
Orton Crane & Shovel Co 608 S Dearborn Chicago 5 Ill
Owen Bucket Co 6001 Breakwater Av Cleveland 2 Ohio
Pettibone Mulliken Corp 4700 W Division Chicago 51 Ill
Schield Bantam Co 221 Park Waverly Iowa
Silent Hoist & Crane Co 875 63rd Brooklyn NY

BUCKETS, CONCRETE

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Erie Steel Construction Co Giest & N P RR Erie Pa
Heltzel Steel Form & Iron Co Warren Ohio
Johnson (C S) Co Box 71 Champaign Ill
Kwik-Mix Co Port Washington Wis
Wheeling Corrugating Co Wheeling W Va

BUILDINGS, METAL

American Bridge Div United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Butler Mfg Co 7400 E 13th Kansas City 26 Mo
General Implement Corp Terminal Tower Cleveland 13 Ohio
Great Lakes Steel Corp Stran-Steel Div Ecorse 29 Mich
International Steel Co 1321 Edgar Evansville 7 Ind
Luria Engineering Corp 500 Fifth Av New York 36 NY
Macomber Inc 1925 Tenth Canton Ohio
MacQueen Service 312 Savings & Trust Bldg Butler Pa
MESKER (GEORGE L) STEEL CORP 400 N W FIRST EVANSVILLE 8 IND
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
Stran-Steel Div Great Lakes Steel Corp Ecorse 29 Mich
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
United States Fabricators Inc 333 Gasche Wooster Ohio
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis

BULLDOZERS

AMERICAN TRACTOR CORP TERRA DR CHURUBUSCO IND
ARPS CORP NEW HOLSTEIN WIS
Caterpillar Tractor Co 600 W Washington East Peoria 8 Ill
Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis
Heil Co 3000 W Montana Milwaukee 2 Wis

WARE

Aluminum Windows

will add Extra Appeal and Value to your homes—and save you time and grief on the job!

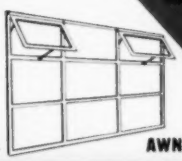
Competitively priced—yet known from coast-to-coast for finest quality

NEW WARE-TITE GLASS JALOUSIES AND DOORS

Perfected weatherstripping—floating stainless steel weather cushion at jambs, durable plastic at head & sill • New Sure-Lock glass spring clip • Space saver—KD packing • Over 100° opening • Adjustable widths in field • Rugged extruded frame 3 1/8"

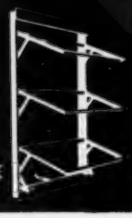
PROJECTED—ARCHITECTURAL AND INTERMEDIATE

Selected weathering—optional weatherstripping • Double glazing without adapters • Inside or outside glazing • Rugged monumental construction • Adjustable friction shoe with pressure spring fully enclosed • Reinforced corners at pivot points • In Standard AWMA sizes — special sizes on request!



ECON-O-WALL AWNING

9 Standard windows — unlimited combinations
ECW Nos. 1110, +11 • 3'-1 15/16"x 2'-1 15/16"
ECW Nos. 1210, 1211, +12 • 3'-1 15/16"x 4'-2¾"
ECW Nos. 1310, 1311, 1312, +13
3'-1 15/16"x 6'-3 9/16"
+11, 12 and 13 Fixed Windows
Highly weatherproof—seals tight—Under-screen operator
Positive lock



INTERMEDIATE AWNING WINDOW

For residential & commercial use • Extra Strength for superior performance • Center sill operation provides balanced actuating force • Crank operates over stool—no crank problem • Gears sealed in oil • Locks tight without accessories—double contact weathering • In Standard and Modular sizes

ECON-O-WARE AWNING

America's economy awning window • Functional—Practical—Trouble Free • Underscreen operator—Positive Locking • All-weather swing protection • Sturdy flash-welded corners—Stainless steel hardware • Seals tight with leverage • 12 stock operating sizes—12 stock Picture Window & Fixed sizes

RESIDENTIAL CASEMENTS COMPARE: DESIGN—DIMENSIONS

Deeper sections 1 3/32" • Wider faces 31/32" For strength 3/16" ventilator web • Wide double contact weathering surfaces • Lacquered per FHA specs • PICTURE WINDOWS—FIXED • BOTTOM VENTILATORS • BULLSEYE • SUNBURST 67 Standard and Modular sizes

Screens each interchangeable with screens—quick, easy!

REGIONAL WAREHOUSING assures prompt delivery. Most cities are overnight from Ware distribution points in Atlanta, Chicago, Houston, and Newark!

Builders! Get all the sound-building facts. Write Dept. AB-4 today. (Also, a few protected territories available to reputable dealers. Inquiries Invited.)

Aluminum
WARE
Windows

3700 N. W. 25th ST., MIAMI, FLORIDA

Hough (Frank G) Co 811 Sunnyside Av Libertyville Ill
International Harvester Co 180 N Michigan Av Chicago 1 Ill
LeTourneau-Westinghouse Co 2301 N Adams Peoria Ill
Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
OLIVER CORP 400 W MADISON CHICAGO ILL
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

BURNERS, GAS

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
ALDRICH CO WYOMING ILL
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio
Barber Gas Burner Co 3704 Superior Av Cleveland 14 Ohio
Bard Mfg Co Bryan Ohio
Berger Furnace Mfg Co 5920 Centre Av Pittsourgh 6 Pa
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO
Century Engineering Corp 401 3rd S E Cedar Rapids Iowa
Cleveland Steel Prods Co Toridheet Div 15801 Brookpark Rd Cleveland 11 Ohio
Conco Engineering Wks Div Conkey (HD) Co 1940 Thomas Mendota Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY STS ROCHESTER NY
Florence Stove Co School St Gardner Mass
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
Harvey-Whipple Inc 55 Emery Springfield Mass
Hauck Mfg Co 124-136 10th Brooklyn 15 NY
Heil Co 3000 W Montana Milwaukee 2 Wis
Henry Furnace Co Medina Ohio
Holland Furnace Co Holland Mich
INGERSOLL PRODS DIV BORG-WARNER CORP KALAMAZOO MICH
International Mfg Co 2249 S Delaware Denver 19 Colo
International Oil Burner Co 3800 Park Av St Louis 10 Mo
Iron Fireman Co 3170 W 106th Cleveland 11 Ohio
JACKSON & CHURCH CO 321 N Hamilton SAGINAW MICH
Ko-Z-Aire Inc 401 W Coolbaugh Red Oaks Iowa
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
MAJESTIC CO HALL ST HUNTINGTON IND
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
National Airoil Burner Co 1284 E Sedgley Av Philadelphia 34 Pa
National Radiator Co 223 Central Av Johnstown Pa
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
Norge Heat Div Borg-Warner Corp 346 E South Kalamazoo Mich
Norman Prods Co 1150 Chesapeake Columbus 12 Ohio
Penn Boiler & Burner Mfg Co Fruitville Rd Lancaster Pa
Queen Stove Wks 505 Front Albert Lea Minn
Ray Oil Burner Co 1301 San Jose Av San Francisco 12 Cal
ROBERTS GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY
Rybolt Heater Co 615 Miller Ashland Ohio
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Thatcher Furnace Co Center St Garwood NJ
TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind
Will-Burt Co 12 Ray Orrville Ohio
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill
Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio
YORK-SHIPLEY INC BOX 349 YORK PA
Zurn (J A) Mfg Co Erie Pa

BURNERS, OIL

Aeroil Prods Co Inc 69 Wesley South Hackensack NJ
AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
ALDRICH CO WYOMING ILL
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Anchor Div Stratton & Terstegge Co Box 311 300 Culbertson Av New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio
Automatic Burner Corp 1823 W Carroll Av Chicago Ill
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
Bard Mfg Co Bryan Ohio
Chalmers Oil Burner Co 312 Lumber Exchange Minneapolis Minn
Century Engineering Corp 401 Third SE Cedar Rapids Iowa
Cleveland Steel Prods Co Toridheet Div 15801 Brookpark Rd Cleveland 11 Ohio
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
Conco Engineering Wks Div Conkey (HD) Co 1940 Thomas Mendota Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY STS ROCHESTER NY
Electric Furnace-Man Inc Emmaus Pa
Fitzgibbons Boiler Co Inc 101 Park Av New York NY
Florence Stove Co School St Gardner Mass
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
General Utilities Corp 1520 N Broad Philadelphia Pa
Gerotor May Corp Maryland & Oliver Sts Baltimore 3 Ohio
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
Hart Heat Div Avery Farm Machy Co 2006 S Washington Peoria Ill
Harvey-Whipple Inc 55 Emery Springfield Mass

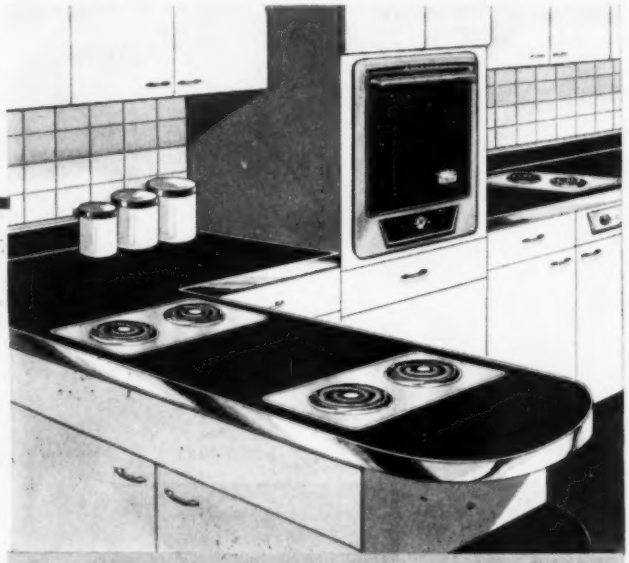
Your homes quickly change from

when equipped with the

Thor built-in

REG. U. S. PAT. OFF.

electric range



You know how strongly the attractiveness of the modern kitchen can influence the sale of a home. And you know how unusual, practical kitchen designs can sell remodeling jobs.

For compelling attention, there's nothing like modern kitchens designed around the flexible new Thor Built-in Electric Range. Women rave about the way the built-in oven is installed at eye-level height to save bending and stooping. They love the way top-surface units are installed in standard counter-tops – right where they save the most steps. And women really go for *all* the advanced modern cooking features of this trend-starting new range.

For complete information on how the new Thor Built-in Electric Range and other perfectly matching new Thor appliances can help you sell more new homes and more kitchen remodeling work, please mail coupon now.

BUILDER-CONTRACTOR DIVISION
Leeson Steel Products, Inc., Dept. AB4
Subsidiary of Thor Corporation
2115 South 54th Avenue, Chicago 50, Illinois

I'd like to see your deal—no obligation, of course.

Name .....
Firm .....
Address .....
City ..... Zone ..... State .....

THOR CORPORATION • Chicago 50, Illinois

There's nothing like the new

DEXTER

"Single Bore"

SCREEN AND COMBINATION DOOR LOCK SET

NO. 1100 LOCK SET

Low in cost— installs easily!

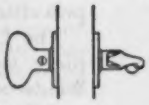
Dexter's "Single Bore" screen and combination door lock set is famous Dexter quality through and through . . . exterior parts solid brass . . . interior parts *steel*, no die castings . . . locks safely, securely from inside at the touch of a fingertip . . . lock fits doors from 5/8" to 1 3/8" thick . . . no adjustment necessary . . ideal for use with door closer . . . costs less and is Dexter *Lifetime* Guaranteed.

Installs in minutes!

You bore only one 1 1/16" hole to install the Dexter "Single Bore." This means hours saved in door installations.

Easy to plane door edge!

Because "Single Bore" does not have a protruding latch bolt, nothing interferes with planing edge of door after installation. Again, costly time is saved.



"SOFT TOUCH" yielding strike!

The Dexter "Soft Touch" yielding strike of the "Single Bore" *requires no mortising*, mounts on surface of door jamb. Metal lever yields when door closes, locks securely.

STRIKE FOR NO. 1100

DEXTER LOCK COMPANY

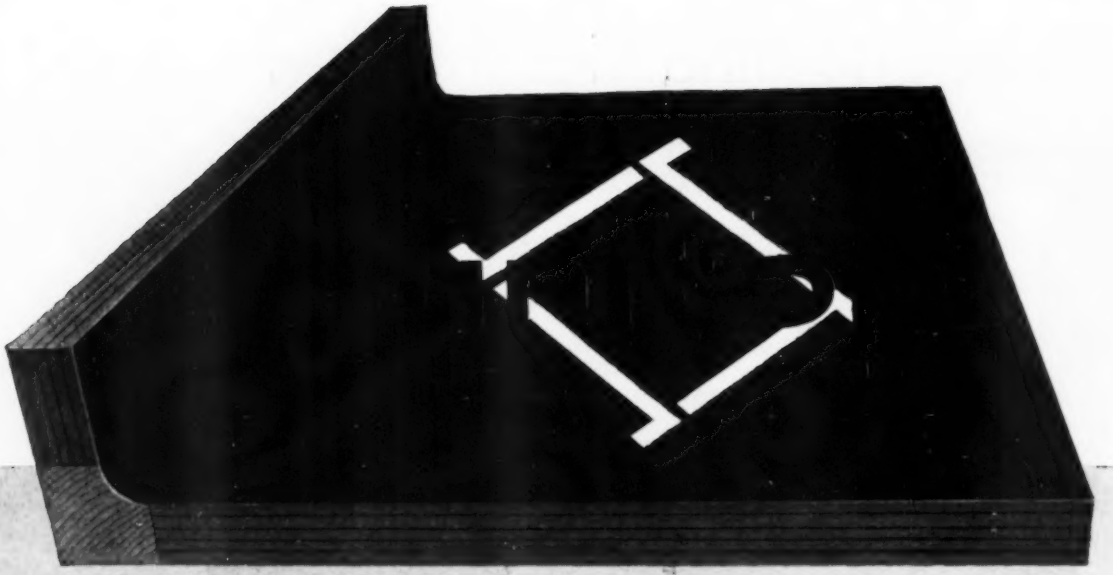
GRAND RAPIDS • MICHIGAN

A SUBSIDIARY OF NATIONAL BRASS COMPANY

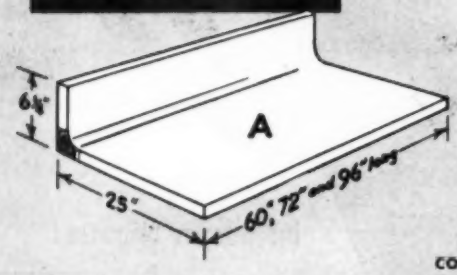
In Canada: Dexter Lock Canada Ltd., Guelph, Ontario

In Mexico: Dexter Locks, Plata Elegante, S. A. de C. V., Monterrey, Nuevo Leon

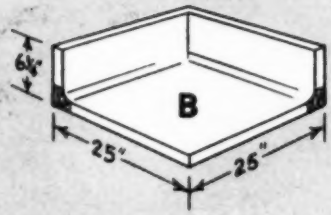
MANUFACTURERS OF AMERICA'S ORIGINAL TUBULAR LOCKS



SPECIFICATIONS

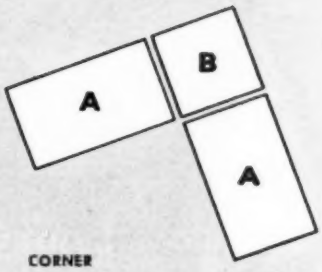


STANDARD UNITOPS



CORNER SECTION

For right or left-hand use. Both edges are factory-trimmed for precision joining.



CORNER SECTION AND STANDARD LENGTHS

View shows standard lengths butted to corner section.

This convenient new type of counter top is one of the most significant kitchen developments in the history of modern home building. The combined top and backsplash in one unbroken piece offers new ease of installation for you and a powerful selling point for use with your prospects.

The Unitop is a beautifully constructed one-piece top of $\frac{1}{16}''$ Micarta® mounted on a ¾" Weldwood® Plywood. There are no joints or molding of any kind to break the sweep of the smooth and appealing Micarta surface. Made in three standard lengths plus an interchangeable left or right-hand corner unit, Micarta Unitops make it simple and economical to provide for practically any installation—whether straight-line, L shaped, or U shaped. Standard Unitops and corner sections are available in stock in Micarta Mardi Gras light gray, yellow, red, green and blue; yellow, red, and green linen; gray, yellow, and red mother-of-pearl.

All ends will have a factory edge, accurately machined and protected to assure a tight joint. Cutouts for sinks can be sawed and molding applied on the job or finished through a local fabricator.

Standard Unitops

Length	Deck Width	Backsplash Height
60"	25"	6¼"
72"	25"	6¼"
96"	25"	6¼"
Corner Section		
25"	25"	6¼"

Ask your lumber dealer today about Unitop, or call your nearest United States Plywood Corporation representative. For further information you may also fill out the coupon below.

Build better kitchens... faster with the

NEW MICARTA UNITOP!

INSTALLATION INSTRUCTIONS

CUTTING OUT FOR SINK

A. Mark off where bowl is to be placed in the counter top. Hold sink ring firmly in position and outline ring with pencil using outside of lower flange as a guide. (Be sure to allow at least 2" of top space beyond the cutout so that there will be room to apply fastening hardware.)

B. Drill a hole inside cutout large enough to accommodate a keyhole saw. Cut to the outside of the line, and keep saw in vertical position when making cut.

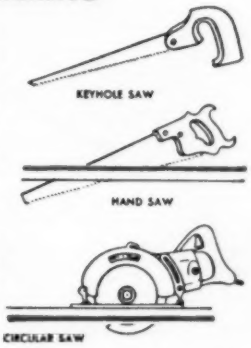
C. Try sink ring in cutout, rasping out excess wood.

(*Note: Although keyhole saw is adequate to do the job, reciprocating-type saw can be used.*)

SAWING AND TRIMMING

Work the Micarta surface with proper care to avoid scratches. If trimming is necessary, cut with handsaw. Use handsaw at low angle, cutting on down stroke with *Micarta face up.*

(*Note: A portable circular saw can be used for straight cut. Place Micarta surface* down *when using portable circular saw.*)

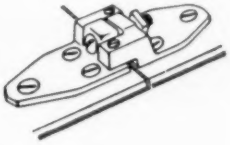


JOINING UNITOP SECTIONS

A. To join sections, use factory trimmed edges at butt joints.

B. Apply U. S. P. joint fastener as shown in sketch. (*You will note that joint fastener has two small setscrews which can be adjusted to obtain a perfect level surface at the joint.*)

C. The U. S. P. joint fastener is attached to the back surface of the panel, and therefore if joint occurs at the edge of a base cabinet it will be necessary to notch out the top rail of the cabinet in order to allow the counter top to set flush on the base cabinet.



INSTALLING MOLDINGS

Use hack saw for straight cuts on molding; smooth burrs with fine tooth file.

For corner miters, use a metal mitering tool such as the "Metalmitre". Install stainless steel molding using calking compound under molding where it meets Micarta surface. Nail molding to plywood from back. Solder molding at corner joints and use metal "snap-on" caps to cover end of Unitop at cove.

SECURING FINISHED TOP

Install sink ring and sink, calk under sink ring where it meets Micarta surface. Install Unitop on cabinet using screws from underside. See your Unitop dealer for further instructions on other types of panel joints, moldings, etc. J-06565

Westinghouse micarta®

Distributed by UNITED STATES PLYWOOD CORPORATION largest plywood organization in the world and U.S. — MENGEL PLYWOODS · INC.

UNITED STATES PLYWOOD CORPORATION
55 West 44th Street, New York 36, N. Y.

Please send full information on your Micarta Unitop Plan.

NAME _____

ADDRESS _____

CITY _____ ZONE ____ STATE _____

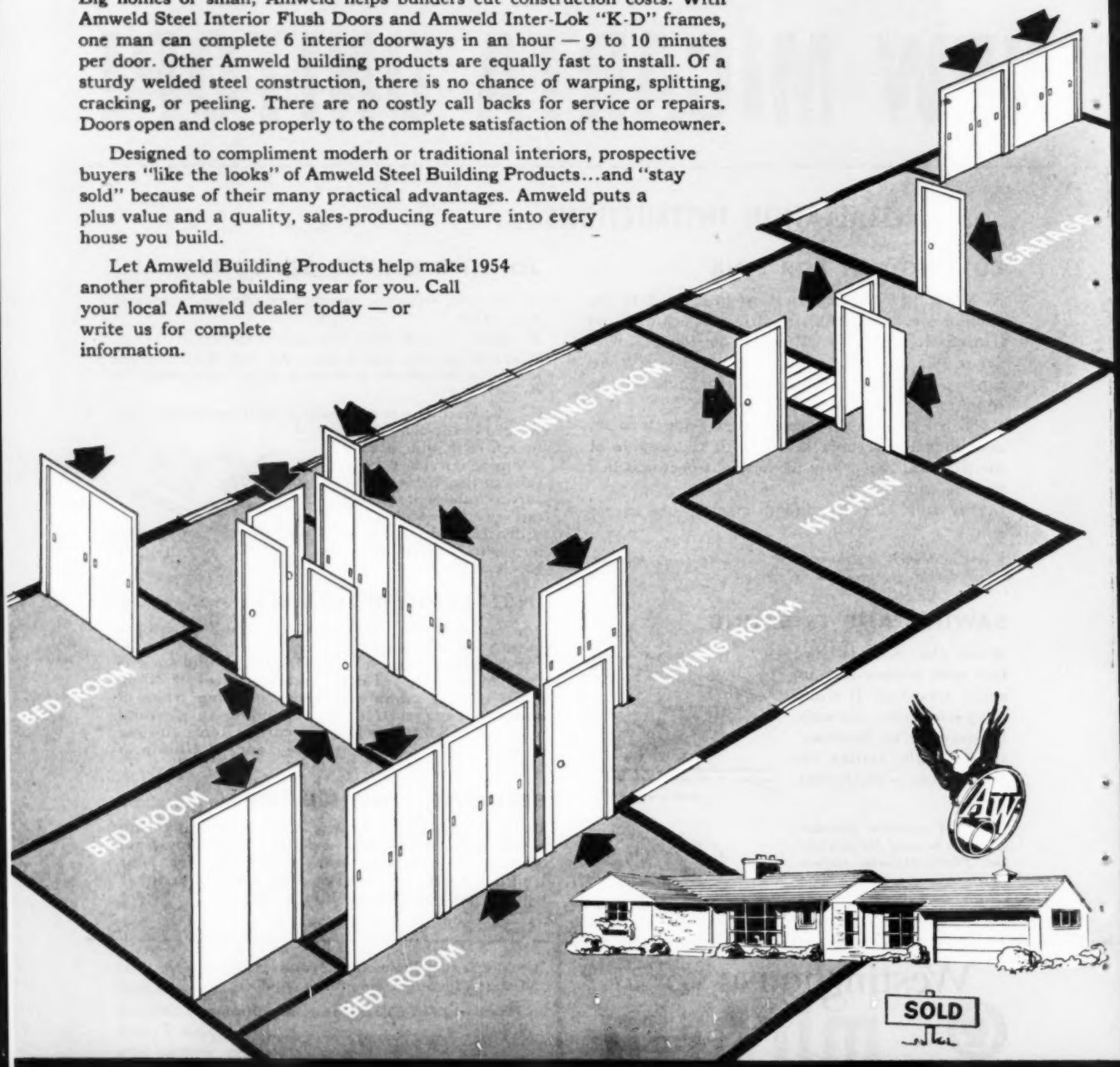
AB 4-54

LOOK WHERE AMWELD CAN SAVE YOU MONEY

Big homes or small, Amweld helps builders cut construction costs. With Amweld Steel Interior Flush Doors and Amweld Inter-Lok "K-D" frames, one man can complete 6 interior doorways in an hour — 9 to 10 minutes per door. Other Amweld building products are equally fast to install. Of a sturdy welded steel construction, there is no chance of warping, splitting, cracking, or peeling. There are no costly call backs for service or repairs. Doors open and close properly to the complete satisfaction of the homeowner.

Designed to compliment modern or traditional interiors, prospective buyers "like the looks" of Amweld Steel Building Products...and "stay sold" because of their many practical advantages. Amweld puts a plus value and a quality, sales-producing feature into every house you build.

Let Amweld Building Products help make 1954 another profitable building year for you. Call your local Amweld dealer today — or write us for complete information.



AMWELD® BUILDING PRODUCTS DIVISION

THE AMERICAN WELDING AND MANUFACTURING COMPANY

310 DIETZ ROAD • WARREN, OHIO

AMWELD® STEEL INTERIOR FLUSH DOORS

- HANDSOME FLUSH DESIGN
- PRIME COATED—READY TO PAINT
- QUICK AND EASY TO INSTALL

Both 1⅜" and 1¾" doors available in standard heights and widths. Can be used in plaster, stud, or masonry walls. For extra fire protection, can be furnished with Underwriters "B" label.

AMWELD® STEEL INTER-LOK "K-D" FRAMES

Inter-Lok frames for 1⅜" are shipped knocked-down. Frame locks together to form neat, mitered corners. Designed for use with Amweld 1⅜" Flush Doors, these frames can also be used with wood doors. Available in all standard sizes to match Amweld Flush Doors. Can be furnished as assembled unit if required.

For 1¾" Flush Doors, Amweld offers an assembled unit only.

AMWELD® SLIDE-AWAY POCKET DOOR and FRAME UNIT

Use the Slide-Away in hallways or other cramped locations. Ideal for kitchens and bathrooms. Adapter kit converts standard 1⅜" Amweld Flush Door into pocket-type disappearing door. Can be equipped for use with wood doors. Choice of latch sets or fingerpulls. Available for 2'6" and 2'8" widths.

AMWELD® STEEL "K-D" SLIDING CLOSET DOOR UNITS

- Saves 6 to 9 feet of door swing area per closet.
- Makes entire closet interior easily accessible.
- Easy-to-install—all hardware snaps in place.
- Choice of prime finish or factory applied natural birch grain finish.

Sizes available—Openings—3', 4', 5' and 6'. Height—6'9½".

AMWELD® KING SIZE "K-D" Sliding Closet Door Units

NEW

8'0", floor-to-ceiling units. Ideal for "wardrobe" walls in bedrooms. Eliminates need for building partial wall between top of closet and ceiling. Provides extra storage space above clothes rod for suitcases, hats, etc. Construction identical to regular Amweld "K-D" Sliding Closet Door Units.

Sizes available (prime finish only)—Openings—4', 5', and 6'. Height—8'.

AMWELD® ASSEMBLED SLIDING CLOSET DOOR UNITS

Amweld Sliding Closet Units also furnished with assembled steel frame, welded at corners. Panels feature snap-in hardware and doorpulls. Frame formed to provide facing trim and matches Amweld Inter-Lok or assembled frames for flush doors.

Sizes available (prime finish only)—3', 4', 5', and 6'. Height—6'9½".

AMWELD® AIR CONDITIONING DOOR

NEW

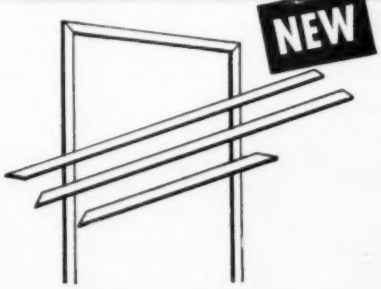
For use with central air conditioning—eliminates need for return ducts or gap door bottom. Allows circulation of air and provides closed door privacy. Use with Amweld 1⅜" Inter-Lok frames.

Available in 2'0", 2'4", 2'6", 2'8" and 3'0" widths and for standard 6'8" openings.

Grille area adequate for normal residential applications.

AMWELD® METAL TRIM for "K-D" Sliding Closet Door Units

NEW



- Eliminates interior woodwork around sliding closets.
- Mitered corners—neat, modern appearance.
- Matches Amweld Inter-Lok Door Frames.
- Easy-to-install—trim is held in place by same screws that fasten jambs and header to rough finished opening.
- Sizes to match both Amweld "K-D" Sliding Closet Units and new Amweld King Size Units.

SEND FOR NEW

AMWELD
BUILDING PRODUCTS CATALOG

20-page booklet. Complete details on construction, installation, sizes, and specifications. Free upon request.

NAME _____

COMPANY _____

ADDRESS _____

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JOHNSON (S T) CO 940 ARLINGTON AV OAKLAND 8 CALIF
Kol-Master Corp 124 Walberg Oregon Ill
Ko-Z-Aire Inc 401 W Coolbaugh Red Oak Iowa
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ
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Quiet Automatic Burner Corp 33 Bloomfield Av Newark 4 NJ
Ray Oil Burner Co 407 Bernal Av San Francisco 12 Cal
Rybolt Heater Co 615 Miller Ashland Ohio
Silent Glow Oil Burner Co 850 Windsor Hartford Conn
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ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
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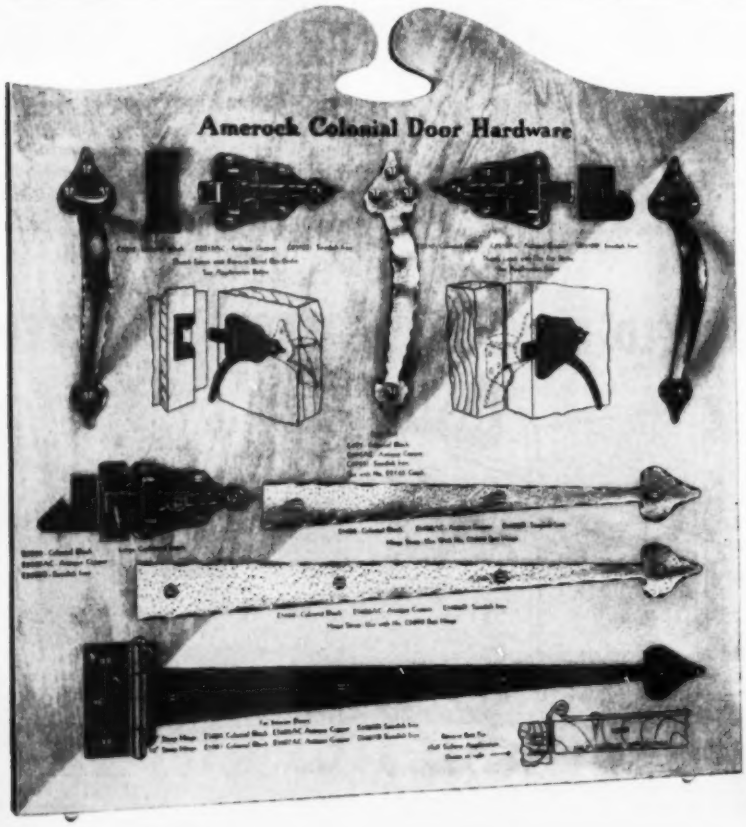
LONG-BELL LUMBER CO R A LONG BLDG 926-B GRAND AV KANSAS CITY 6 MO



Outstanding Values in Colonial Door Hardware

Now—top Amerock quality in Colonial Door Hardware at low cost. Give your homes the selling appeal of beautiful Colonial Door Hardware by Amerock. In 3 beautiful finishes: Colonial Black, Antique Copper, and Swedish Iron. See your Amerock Dealer.

GENUINE Amerock HARDWARE

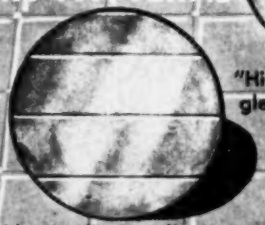
AMERICAN CABINET HARDWARE CORP.
ROCKFORD, ILLINOIS

AFCO PRE-FINISHED WALL PANELS

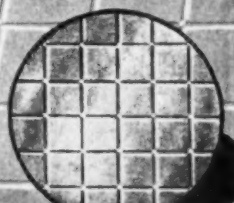
The ideal material for new construction, remodeling and renovation. Strong, durable, and attractive for home and commercial use.

THREE SMART PATTERNS

"Hi-Lite," plain pattern, gleaming mirror finish.



"Glo-Line," streamline pattern, 8" horizontal lines.



"Til-Lite", tile pattern, 4" squares.

11 decorator colors

No. 300 White
No. 301 Yellow
No. 302 Royal Blue
No. 303 Chinese Blue
No. 304 Turquoise Blue
No. 305 Rose
No. 306 Green
No. 307 Peach
No. 308 Black
No. 309 Chinese Red
No. 310 Grey

All colors striped white except No. 300 White, which is striped black, red, or grey. All colors of striping are available upon request.

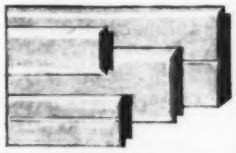
WATERPROOF CEMENT

For tileboard and other similar wall materials. Holds fast for life or wall material. Coverage: 60-80 sq. ft. per gallon. Sizes: quarts, gallons, 5-gallon cans. Tested for adhesion under conditions of heat, cold, moisture. Absolutely waterproof.

- *Beauty*
- *Quality*
- *Dependability*

HARD BOARD MOULDINGS

All patterns available in all AFCO colors.

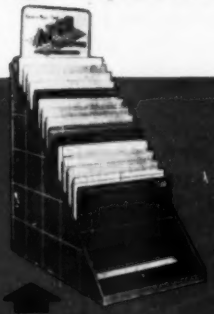


Divider	1¼"x¼"	4' lengths
Cap	1¼"x¼"	6' lengths
Cap	1⅞"x¼"	6' lengths
Base	3⅝"x¼"	6' lengths
Base	5⅝"x¼"	6' lengths

METAL MOULDINGS

Highly polished aluminum extruded mouldings for every use in building and repair. Catalogue on request.

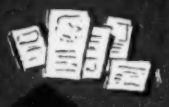
COMPLETE DEALER AIDS



Silent Salesman is one of the two types of counter displays available to dealers. Other dealer aids furnished are shown on the right.

Color Chip Folder showing range of colors and patterns.

Simple instruction booklet on installation.



Newspaper advertising mats

Colorful mailing piece to encourage remodeling.

Direct mail jumbo post cards

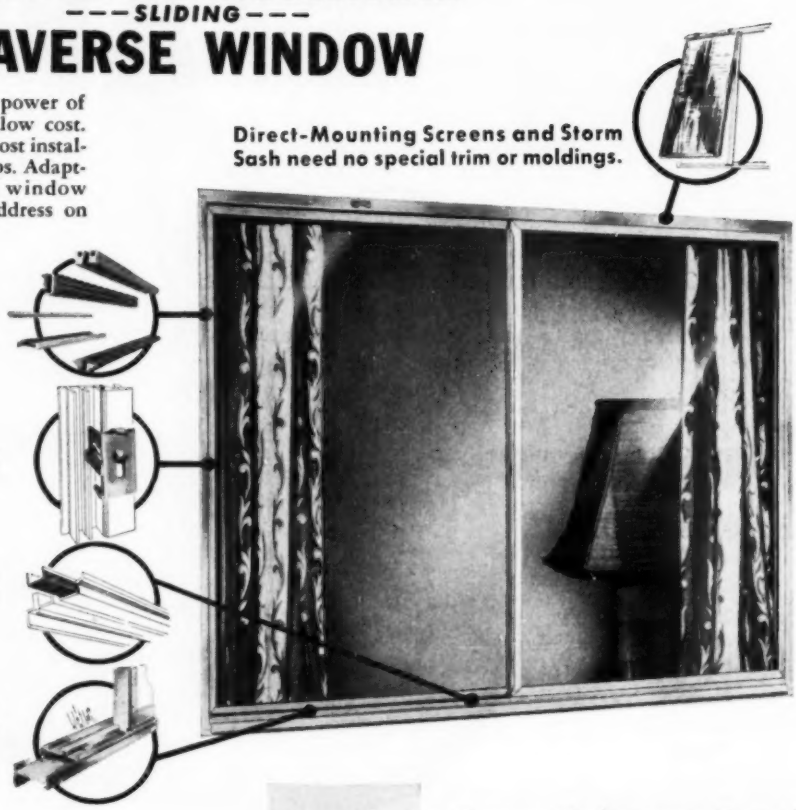
FREE premiums special promotions

A & F TILEBOARD CO., INC.

Alexandria, Louisiana

New! REYNOLDS ALUMINUM ---SLIDING--- TRAVERSE WINDOW

A new high in the home-selling power of Aluminum Windows at a new low cost. Tops in quality and beauty, low-cost installation using special universal clips. Adaptable to any design, including window walls. *Write for literature.* (Address on next page.)



Direct-Mounting Screens and Storm Sash need no special trim or moldings.

Neoprene Weatherstripping and Dust Guards. Vents close tight, lift out easily.

Positive Locking Vents... stainless steel, foolproof, fit against frame.

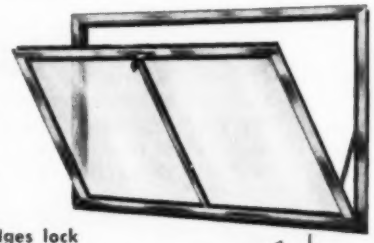
New "Aquaseal" Efficiency through capillary action of wool pile.

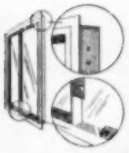
Exclusive "Aquawell" Double Sill drains off condensation and water.

New! REYNOLDS ALUMINUM BASEMENT AND UTILITY WINDOWS

Built of Sections Specifically Engineered for Basement Windows

Weather, rain, mud, dampness fail to harm Reynolds Aluminum Basement Windows. They eliminate trouble and expense, never need paint, never rust or rot.





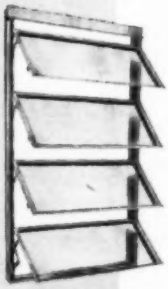
Serrated Edges lock windows in wall, prevent loosening, anchor glass permanently.

Double Contact Weathering provides flush surface, weathertight fit.

Two Guide Arms (pat. pending) hold vent rigid, yet permit easy removal.

. . . and other Famous Performance-Proved

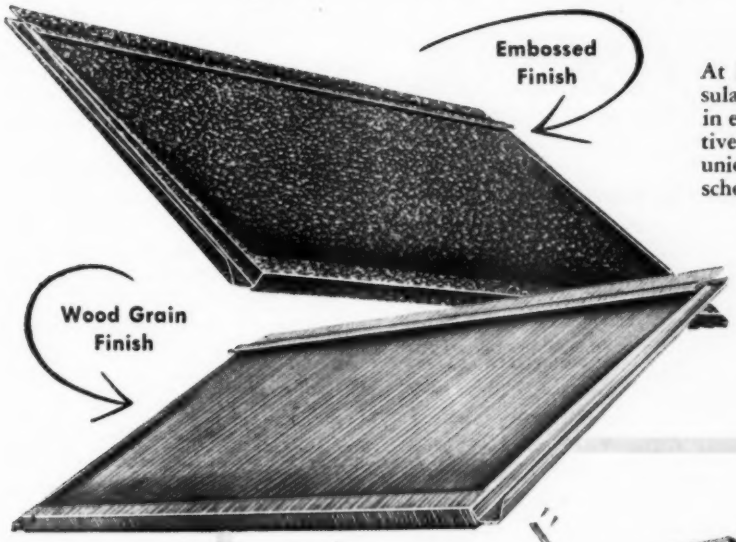
REYNOLDS ALUMINUM WINDOWS



Popular Awning Type constructed of Reynolds Aluminum Extrusions for controlled ventilation, easy cleaning, positive closing.

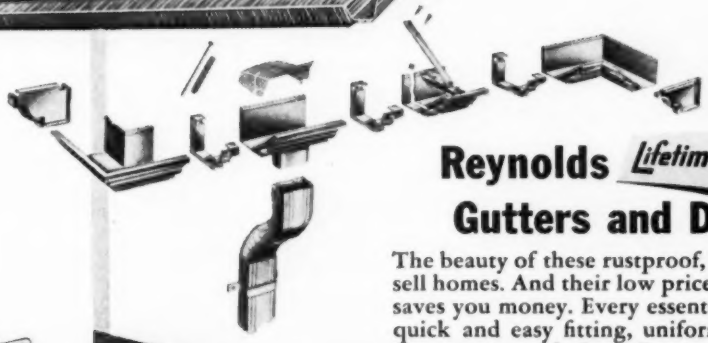
Standard and Modular Casements — rugged, tight, "satinized" finish, with storm sash and screens.

New! REYNOLDS *Lifetime* ALUMINUM MASTER Shadow-Cup Design SHINGLES



At last, the rustproof permanence and the insulating heat-reflection of an aluminum roof . . . in exceptionally weathertight shingles of distinctive beauty. Deep shadow line enhanced by the unique "Shadow-Cup" feature. Ideal for homes, schools, institutions. Write for literature.

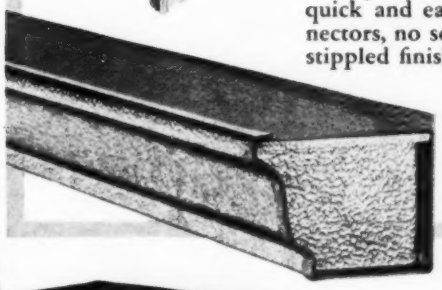
Self-aligning, interlocking, go up quickly and inexpensively, all nails concealed. Anti-capillary side lap, 3/8" shadow line depth. Ideal for new buildings as well as re-roofing.



Eaves Trough and Rectangular Conductor Pipe in 10' lengths. Slip Connector, End Caps R & L, Section with Outlet, Outside Mitre, Inside Mitre, Strap Hangers, 60° Style A ell, 75° Style A ell, Pipe Bands, Strainer, Ferrule & Spike, Aluminum Nails.

Reynolds *Lifetime* Aluminum Gutters and Downspouts

The beauty of these rustproof, non-staining gutters helps sell homes. And their low price *plus lowest application cost* saves you money. Every essential piece "ready-made" for quick and easy fitting, uniform installation . . . slip-connectors, no soldering! Ogee and Half-Round, plain and stippled finish. Write for literature.



Ogee and Half-Round 5" Gutters. Complete with all Fittings.

Reynolds *Lifetime* Aluminum Flashing

Lowest in cost of rustproof materials, easiest to work—and best looking! In 50-foot rolls, 14", 20" and 28" wide; also flat sheets 28" by 6', 8', 10', 12'. Thickness .019".

Reynolds Metals Company, Building Products Division, 2003 S. Ninth St., Louisville 1, Ky.

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TRACY KITCHENS EDGEWATER STEEL CO BOX 1137 PITTSBURGH 30 PA
Walters Mfg Co 140 Pennsylvania Av Oakmont Pa
Whitehead Metal Prods Co Inc W 10th & Washington New York 14 NY
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

CABLE, INSULATED

American Flexible Conduit Co 31 Scott New Bedford Mass
American Metal Moulding Co 146 Coit Irvington NJ
AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Anaconda Wire & Cable Co 25 Broadway New York NY
Boston Insulated Wire & Cable Co Bay St Dorchester 25 Mass
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Couch (S H) Co Inc 1 Arlington North Quincy Mass
GENERAL ELECTRIC CO CONSTRUCTION & MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
Okonite Co Passaic NJ
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

CABLES, CRANE

American Cable Div American Chain & Cable Co Inc E Rose & Thomas St Wilkes-Barre Pa
AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Broderick & Bascom Rope Co 4203 N Union Blvd St Louis 15 Mo
Columbia-Geneva Steel Div United Steel Corp Russ Bldg San Francisco 6 Cal
Fischer & Hayes Rope & Steel Co 4018 W Lake Chicago Ill
MacWhyte Co 2960-14th Av Kenosha Wis
Roebling's (John A) Sons Corp Broad & Neroni St Trenton NJ
Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio

CALCIMINE

Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Chicago Bronze & Color Wks 2673 W Grand Av Chicago 12 Ill
Fox (M Ewing) Co Inc 136th & Rider Av New York 51 NY
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Lucas (John) & Co 1619 Pennsylvania Blvd Philadelphia Pa
Moore (Benjamin) & Co 511 Canal New York NY
Muralo Co Inc 572 Richmond Terrace Staten Island 1 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reardon Co 7501 Page Av St Louis 14 Mo
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
U S Kalsomine Co 50 Church New York NY
Wadsworth-Howland & Co 141 Federal Boston Mass
Wesco Waterpaints Inc Maple St Matteson Ill

CALCIUM CHLORIDE

Allen (W D) Mfg Co 566 W Lake Chicago 6 Ill
American Cyanamid Co 30 Rockefeller Plaza New York 20 NY
Camp Chemical Co Inc 170 Second Av Brooklyn 15 NY
Columbia-Southern Chemical Corp 632 Fort Duquesne Blvd Pittsburgh 22 Pa
Dow Chemical Co 1000 Main Midland Mich
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Horn (A C) Co Inc Tenth & 44 Av Long Island City 1 NY
Meadows (W R) Inc 2 Kimball Elgin Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Wyandotte Chemicals Corp Biddle Av Wyandotte Mich

CANVAS, CANVAS PRODUCTS

American Tent & Awning Co 1132 Mission San Francisco 3 Cal
Astrup Co 2937 W 25th Cleveland 13 Ohio
Bemis Bros Bag Co 508 Pine Box 7 St Louis 2 Mo
Canvas Prods Co 2115 Locust St Louis 3 Mo
Canvas Specialty Co Box 937 Hartford Conn
Clifton Mfg Co 323 Pleasant St East Waco Texas
DANIELS (C R) INC 4900 BLOCK WETHEREDSVILLE RD HILLSDALE BALTIMORE 16 MD
Fulton Bag & Cotton Mills Co 170 Blvd Plaza SE Atlanta 3 Ga
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Johnson (J W) Co 3100 W Randolph Bellwood Ill
New York Drop Cloth Mfg Co Inc 10-57 Jackson Av Long Island City 1 NY
Standard Awning Co 83 Avon Hartford 5 Conn
Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
TROY SUNSHADE CO GRANT & SCOTT ST TROY OHIO
Tucker Duck & Rubber Co 515 Garrison Av Fort Smith Ark
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

CANVAS, ROOFING

DANIELS (C R) INC 4900 BLOCK WETHEREDSVILLE RD HILLSDALE BALTIMORE 16 MD
Gichner Inc 1900 Kendall NE Washington 2 DC
Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

CANVAS, WASHABLE WALL

Astrup Co 2937 W 25th Cleveland 13 Ohio
Canvas Specialty Co Box 937 Hartford Conn
Fulton Bag & Cotton Mills 170 Boulevard Elsas Atlanta 3 Ga
Standard Coated Prods Inc 67 W 44th New York 36 NY

CARPETING

Bigelow-Sanford Carpet Co Inc 140 Madison Av New York NY
Mohawk Carpet Mills Inc Lyon St Amsterdam NY

CAR PUSHERS

Advance Car Mover Co Inc 112 N Outagamie Appleton Wis
Hough (Frank G) Co 811 Sunnyside Av Libertyville Ind
Jeffrey Mfg Co 827 N 4 Columbus 16 Ohio
Kewanee Mfg Co 150 Burlington Av Kewanee Ill
Link Belt Co 307 N Michigan Av Chicago 1 Ill
OLIVER CORP 400 W MADISON CHICAGO ILL
Renco 4372 W Ogden Chicago 23 Ill
Silent Hoist & Crane Co 875 63rd Brooklyn 20 NY
Tallman Mfg Co Shelbyville Ill

CARRIERS, HAND, BRICK, TILE & BLOCK

Adams Co Box 268 Dubuque Iowa
Block-Lift Co Box 213 Cuyahoga Falls Ohio
Builders Material Inc 601-3rd SE Cedar Rapids Iowa
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fuller Mfg Co 2 R R Dept AB4 Newhall Iowa
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
KEWANEE MFG CO 150 BURLINGTON AV ILL
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Vulcan Tool & Mfg Co 41 Liberty Quincy 69 Mass

CARTS, GARDEN

INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE WIS
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Masters Planter Co 350 North St Benton Harbor Mich
Midland Co 1200 W Rawson Av South Milwaukee Wis
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill

CARTS, MATERIAL HANDLING

American Conveyor Co 1115 W Adams Chicago 7 Ill
Chattanooga Wheelbarrow Co 1313 E Main Chattanooga 2 Tenn
Equipto Div Aurora Equipment Co John & Prairie St Aurora Ill
Fairbanks Co 395 Lafayette New York 3 NY
French & Hecht Div Kelsey-Hayes Wheel Co 50 Farnam Davenport Iowa
Gichner Inc 1900 Kendall NE Washington 2 DC
Hawkeye Industries 820 Vivian Longmont Colo
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE WIS
Kwik-Mix Co Port Washington Wis
Lansing Co 603 N Cedar Lansing 3 Mich
Market Forge Co 35 Garvey Everett 49 Mass
Ney Mfg Co 948 High Av SW Canton 4 Ohio
Nutting Truck & Caster Co 1625 W Division Faribault Minn
Prime Mover Co Sampson St Muscatine Iowa
Service Caster & Truck Corp 540 N Brownwood Av Albion Mich

CASING, METAL

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bostwick Steel Lath Co 101 Heaton Niles Ohio
Casings Inc 2408 N Farwell Av Milwaukee 1 Wis
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Croft Steel Prods Inc 10 Market Jamestown NY
DRYWALL TRIM INC 2408 N FARWELL AV MILWAUKEE 11 WIS
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Steelcraft Mfg Co 9017 Blue Ash Rd Rossmoyne Ohio
Truscon Steel Div 1050 Albert Youngstown 1 Ohio
Vento Steel Prods Co Inc 250 Colorado Av Buffalo 15 NY

CAULKING COMPOUNDS

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Alside Inc 1415 Waterloo Rd Akron Ohio
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD
Anti Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Arco Co 7301 Bessemer Cleveland 4 Ohio
Armstrong Co 1001 E 103rd Chicago 28 Ill
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas
BALTZ (R N) & CO 1009 HARVARD TERRACE EVANSTON ILL
Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Biddle Co 608-624 S Main St Louis 2 Mo
Blue Ridge Talc Co Inc Henry Va
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Central Metal Strip Co 4343 N Western Av Chicago 18 Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich

ASPHALT Roofings & Sidings

for every new construction and replacement need!

WOODTEX

Grained Surface 12" x 36"

THICK BUTT

Plain and Grained Surface 12" x 36"

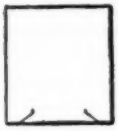
THREE TAB Hexagonal

Plain and Grained Surface 11⅓" x36"

Specifications		
Slabs Per Sq.	Bdls. Per Sq.	Wt. Per Sq.
80	3	250 lbs.
80	3	215 lbs.
86	2	167 lbs.

UNIVERSAL

Plain Surface

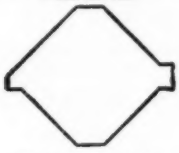


16" x 18" — 4" sidelap

80	2	138 lbs.

FRENCH LOCK

Plain Surface



16" x 16" — 2½" sidelap (furnished with staples)

82	2	140 lbs.

SAF-T-LOK

Grained Surface

Single Coverage

18¾" x 20 1/16" — 2" sidelap

96	3	170 lbs.

Double Coverage

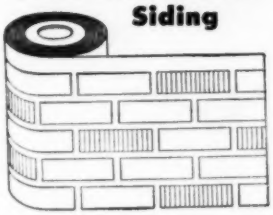
18½" x 20 1/16" — 4" Sidelap

120	3	230 lbs.

JUMBO DUTCH LAP (plain surface) 12"x16"—3" sidelap

112	2	162 lbs.

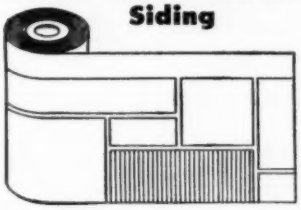
ROLL BRICK-TEX Siding



Specifications		
Strip Per Roll	Size Per Strip	Wt. Per Roll
2	16" x 42'	105 lbs.

Black Mortar Lines Matching Corner Strips Available

ROLL STONE DESIGN Siding



Specifications		
Strip Per Roll	Size Per Strip	Wt. Per Roll
2	16" x 43' 3"	105 lbs.

Black Mortar Lines Matching Corner Strips Available

WAVE LINE Siding Shingle

Grained Surface 10¼" x 32"

Specifications		
Slabs Per Sq.	Bdls. Per Sq.	Wt. Per Sq.
50	1	105 lbs.

Insulating Sidings available at York, Pa. and Savanna, Ill.

MINERAL SURFACED ROLL ROOFINGS

Certain-teed 90 lb.
Certain-teed 19 in. Selvage Edge Roofing
Certain-teed Blockedge Grained
Certain-teed Starter and Valley Strips

SMOOTH SURFACE ROLL ROOFINGS

Certain-teed 55 lb., 65 lb. & Guard 45 lb.
Black & White Cap Sheet
Base Sheet

A Complete Line of

FELTS, BUILDING PAPERS, ROOF COATINGS and CEMENTS

NOTE. A complete list of the wide variety of colors available will be sent at your request.

Certain-teed BUILDING PROD. 50th YEAR

Certain-teed

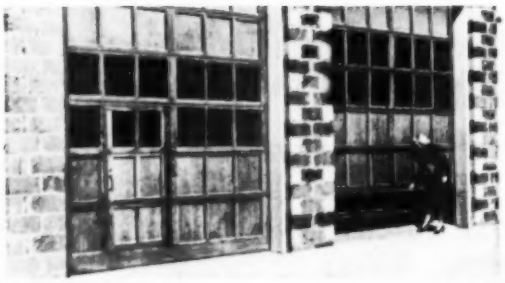
REG. U.S. PAT. OFF.

Quality made Certain . . . Satisfaction Guaranteed

CERTAIN-TEED PRODUCTS CORPORATION

ARDMORE, PENNSYLVANIA

ASBESTOS ROOFING • SHINGLES • SIDINGS
ASBESTOS CEMENT • ROOFING AND SIDING SHINGLES
GYPSUM PLASTER • LATH • WALLBOARD • SHEATHING
FIBERGLAS BUILDING AND ROOF INSULATIONS



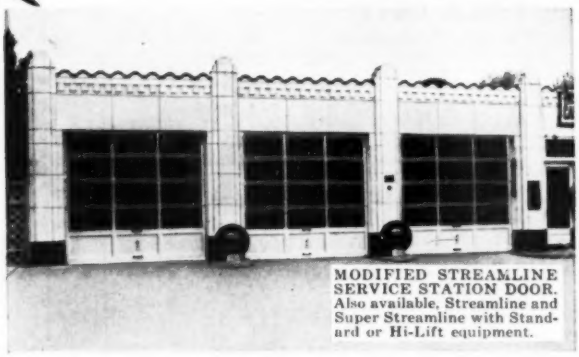
PASS DOOR. Can be furnished for any How-ell-dor under 18' wide and 4 Sections or more high.

Quality Builders

use Quality Products . . .

How-ell-dor

"The door everyone looks at twice —and likes at once!"



MODIFIED STREAMLINE SERVICE STATION DOOR. Also available, Streamline and Super Streamline with Standard or Hi-Lift equipment.

A garage door's worth is best measured in terms of what it does for you . . . "Howell" it performs a service you need. Taking price, quality, styling and service into account, the How-ell-dor is the sectional door at its best.

Write for new '54 literature.

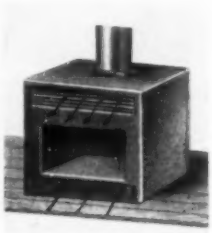
Now available in 44 stock styles and sizes; custom-built doors are a specialty.

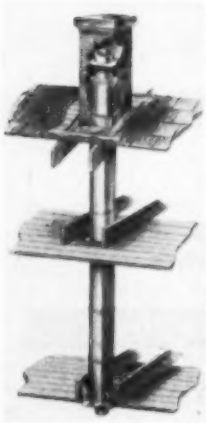
THE HOWELL MANUFACTURING CO.
7201 Hasbrook Avenue, Philadelphia 11, Pa.

FOR QUICKER, MORE PROFITABLE BUILDING . . .

AIR-JET

COMPLETE, PACKAGED FIREPLACE





Now even low priced homes can have a fireplace because Air-Jet costs ½ to ⅔ less than a conventional fireplace of like size. Has a 30" firebox and auxiliary heating circuit and is designed for zero clearance on *all sides*. Nothing else to buy . . . build . . . or add.

AND

AIR-JET

PACKAGED CHIMNEYS

Light in weight (less than 100 lbs.) can be installed in 1 hour! Needs no cement . . . no special tools. UL approved for use with oil, coal, wood or gas fuels and 25 pounds per square foot wind load. Special draft top guards against snow, rain and down-drafts. 3 chimney top models and 3 smoke pipe sizes to choose from.

A few distributorships available. For further information write to:

GENERAL PRODUCTS COMPANY INC.
FREDERICKSBURG 7, VIRGINIA

LONG TRENCHES OR SPOT EXCAVATIONS

SHAWNEE SCOUT DITCHER

Model 70
Digs 12 Ft. Deep!

Owners themselves report satisfactory digging at this depth with a reach of 14 ft. The operating arc is throughout 150° and the loading height is 8 ft. 6 in. Installation or removal from the tractor may be made in less than 20 minutes.

SHAWNEE

SHAWNEE HYDRO-CLAM

Minimum hole 36" square for spot excavations. Digs straight down. Forms square corners.

The answer to heavy digging and spot excavations. 4½ tons of pressure is applied to both halves of the clam.

- Digs 8½ feet deep
- Dumping height up to 7½ ft.
- 24", 30" and 36" with clam buckets
- Adjustable outriggers
- Interchangeable

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1947-JJ North Topeka, Topeka, Kansas

Chemical Supply Co 3540 Norton Cleveland Ohio
Con-Cor Co 4550 Main Kansas City Mo
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Dad & Lad Co New Lennox Ill
Dennis Chemical Co 2701 Papin St Louis Mo
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dicks-Pontius Co 5300 Huberville Rd Dayton Ohio
Division Lead Co 7742 W 61st Pl Summit Ill
Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill
Fort Pitt Chemical Co 26th & Smallman St Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Harrop Chemical Co 125 Hoboken Av Jersey City 2 NJ
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Landen Putty Wks Inc 45 Irving Malden 48 Mass
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lichten Co Inc 1210 N Hoyne Chicago 22 Ill
Liebich (G L) Co 931 N Ogden Chicago 22 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

Nu-CALK
CALKING COMPOUND
SPEED LOADS or BULK!

See Pages 14-17

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Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
Minwax Co Inc 11 W 42nd New York 15 NY
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Moore (Benjamin) & Co 511 Canal New York 13 NY
MORTELL (J W) CO 550 N HOBBIE KANKAKEE ILL
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY
Parker (Ira) & Sons Oshkosh Wis
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PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
Prestite Engineering Co 3900 Choteau Av St Louis 10 Mo
Quigley Co Inc 527 Fifth Av New York 17 NY
Ranetite Mfg Co 1917 S Broadway St Louis 4 Mo
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Rockford Paint Mfg Co 200 Sayre Rockford Ill
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Schalk Chemical Co 351 E 2nd Los Angeles 12 Cal
Seal Rite Caulking Co 6335 Lyndon Av Detroit Mich
Smooth-On Mfg Co 574 Communipaw Jersey City 4 NJ
Sonneborn (L) & Sons Inc Building Prods Div 400 Fourth Av New York 16 NY
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Truscon Laboratories Div Devoe & Raynolds Inc Caniff at Grand Trunk Ry Detroit 11 Mich
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Van Cleef Bros Inc 7800 S Woodlawn Av Chicago 19 Ill
Wallace Mfg Co 10th & Fayette North Kansas City Mo
Warnica Prods 6416-18 S Ashland Av Chicago 36 Ill
Weatherguard Service Inc 564 Jackson Av New York 55 NY
Webster (WF) Cement Co 224 Thorndike Cambridge 41 Mass
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
X-Pando Corp 43-15 36th Long Island City 1 NY
ZEGERS INC 8090 S CHICAGO AV CHICAGO 17 ILL

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Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS

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Continental Steel Corp 1109 S Main Kokomo Ind
Edwards Mfg Co Fifth & Butler St Cincinnati 2 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Hauserman (E F) Co 6850 Grant Av Cleveland 5 Ohio
Klauer Mfg Co 9th & Washington Dubuque Iowa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Tach-Fast Mfg Co Lonaconing Md
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Virginia Metal Prods Inc Dept A 44 Orange Va
Wheeling Corrugating Co Wheeling W Va

▶ CEILINGS, SUSPENDED

Lok-Prods Co 5109 San Fernando Rd W Los Angeles 39 Cal
Luminous Ceilings Inc 2500 W North Av Chicago 47 Ill
Suspended Ceiling Div Sanymetal Prods Inc 2093 E 19th Cleveland 15 Ohio
Tach-Fast Mfg Co Lonaconging Md
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Virginia Metal Prods Inc Dept A 44 Orange Va

▶ CEMENT, ACIDPROOF

Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas
Atlas Mineral Prods Co Mertztown Pa
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Mexico Refractories Co Love & Cole St Mexico Mo
Nukem Prods Corp 111 Colgate Av Buffalo 20 NY
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
Quigley Co Inc 527 Fifth Av New York 17 NY
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Sauereisen Cements Co 1045 N Canal Pittsburgh 15 Pa
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY
U S Stoneware Co 5300 E Tallmadge Av Akron 9 Ohio

▶ CEMENT, ASBESTOS

Asbesto Mfg Corp 131 Wabash Michigan City Ind
Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Badger Corrugating Co 1801-39 W Av S La Crosse Wis
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Clinton Metallic Paint Co Clinton NY
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
Flintkote Co 50 W 50th New York 20 NY
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Lehon Co 4425 S Oakley Chicago 9 Ill
Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Pabco Prods Inc 475 Brannan San Francisco 19 Cal
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA
Plibrico Jointless Firebrick Co 1800 N Kingsbury Chicago 14 Ill
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Rutland Fire Clay Co Curtis Av Rutland Vt
Sall Mountain Co Box 777 Hamilton Ohio
Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill
Texas Co 135 E 42nd New York 17 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill

▶ CEMENT, CANVAS

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Fanner Mfg Co Brookside Park Cleveland 9 Ohio
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL
Webb Prods Co 216 S "G" San Bernardino Cal

▶ CEMENT, HOUSEHOLD REPAIR

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Ambroid Co 305 Franklin Boston 10 Mass
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Borden Co Chemical Div 350 Madison Av New York 17 NY
Boyle-Midway Inc 22 E 40th New York NY
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Howe & French Inc 99 Broad Boston 10 Mass
Lake Chemical Co 3052 W Carroll Chicago 12 Ill
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
So-Lo Wks Inc Loveland Ohio
Testor Chemical Co 520 Buckbee Rockford Ill
Varlar Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill
Webb Prods Co 216 S "G" San Bernardino Cal

▶ CEMENT, KEENE'S

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

▶ CEMENT, MASONRY

Alpha Portland Cement Co First National Bank Bldg Easton Pa

Calaveras Cement Co 315 Montgomery San Francisco 4 Cal
Consolidated Cement Corp 111 W Monroe Chicago Ill
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL
Hawkeye Portland Cement Co Cedar Rapids Iowa
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo
Keystone Lime Wks Inc Keystone Ala
Kosmos Portland Cement Co 1527 Stark Bldg Louisville 2 Ky
LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA
LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY
LOUISVILLE CEMENT CO 501 SECOND LOUISVILLE 2 KY
MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
Missouri Portland Cement Co St Louis 8 Mo
National Mortar & Supply Co 1st National Bank Bldg Pittsburgh 22 Pa
North American Cement Corp 41 E 42nd New York 17 NY
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Riverton Lime & Stone Co Inc Riverton Va
Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash
Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
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▶ CEMENT, NON-STAINING

Borden Co Chemical Div 350 Madison Av New York 17 NY
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Southern Cement Co 605 Protective Life Bldg Birmingham Ala
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY

▶ CEMENT, PORTLAND

Alpha Portland Cement First National Bank Bldg Easton Pa
Ash Grove Lime & Portland Cement Co Fairfax Bldg Kansas City Mo
Calaveras Cement Co 315 Montgomery San Francisco 4 Cal
California Portland Cement Co 612 S Flower Los Angeles Cal
Consolidated Cement Corp 111 W Monroe Chicago Ill
Cumberland Portland Cement Co Chattanooga Tenn
Dewey Portland Cement Co 310 Ward Pkwy Kansas City 2 Mo
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
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GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL
Hawkeye Portland Cement Co Cedar Rapids Iowa
Hermitage Portland Cement Co Nashville Tenn
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo
Ideal Cement Co 310 Sansome San Francisco 6 Cal
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Station Salt Lake City 6 Utah
Kosmos Portland Cement Co 1527 Starks Bldg Louisville 2 Ky
LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA
LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY
LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY
MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL
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Use these engineered members to cut erection costs and to add beauty to any type of building.

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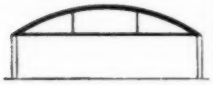
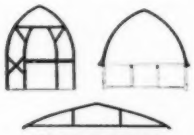
TANGENT ARCHES	Churches Gymnasiums Chapels Theaters	24′ to 100′	8′ to 20′	Arch and laminated purlins gives unsurpassed beauty, without expensive veneering. Fire resistant. Made of kiln-dried Douglas Fir selected for strength and appearance.
RADIAL ARCHES	Gymnasiums Hangars Auditoriums Armories Skating Rinks Bowling Alleys	40′ to 120′	8′ to 20′	Graceful arches have the clean, natural beauty of fine wood. Wide, clear spans give large unobstructed space without unsightly framework. Fire resistant. Efficient design makes a building that is economical to erect.
STRAIGHT ARCHED-PITCHED LAMINATED WOOD BEAMS	One-story Schools Stores Offices Residences Gymnasiums Industrial Buildings	20′ to 60′	6′ to 20′	Resists checking and warping and other seasoning defects common to solid timber. Fire resistant. Combines structural and decorative advantages for economy.
RILCORD TRUSSES	Wide, Clear-Span Buildings Garages Factories Hangars Warehouses Gymnasiums	24′ to 200′	8′ to 20′	Well adapted to wide, clear-span construction. Economical. Designed for specific requirements such as concentrated loads, hoists, etc.
 TIED ARCHES	Stores Factories Theaters Warehouses Hangars	24′ to 65′	2′	Light enough to erect without special equipment. One inch roof sheathing can be nailed to top of arch with ceiling material nailed directly to lower tie.
UTILITY ARCHES	Small Hangars Warehouses Gymnasiums Theaters Community Buildings	28′ to 80′	2′ to 20′	Easy to plan. Economical. Combines sidewall and roof in one piece for easy erection. Requires no costly field assembly. Any type of roofing can be applied over sheathing.
 FARM RAFTERS	Barns Utility Buildings Machine Sheds Grain Storage Buildings	any span any desired building	2′	Keep labor costs down—rafters for large barn can be erected in less than a day. No internal posts or braces. Laminated with waterproof glue. Engineered for every type of farm building such as barns, machine sheds, corn cribs and granaries, poultry and hog houses.

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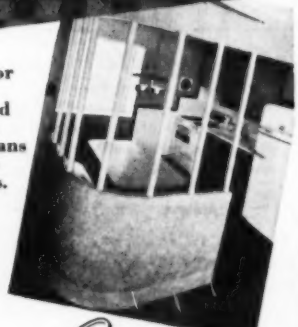

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LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
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CEMENT, PORTLAND, HIGH EARLY STRENGTH

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Calaveras Cement Co 315 Montgomery San Francisco 4 Cal
Consolidated Cement Corp 111 W Monroe Chicago Ill
GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich
LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA
LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY
LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY
MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
Missouri Portland Cement Co 3615 Olive St Louis 8 Mo
North American Cement Corp 41 E 42nd New York 17 NY
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich
Penn-Dixie Cement Corp 60 E 42nd New York 17 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill
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Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill
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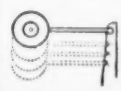

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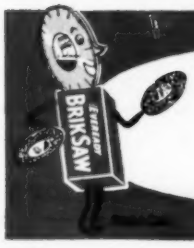

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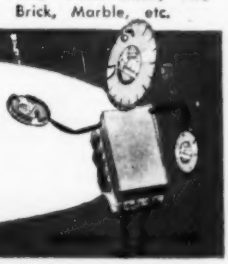

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Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
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Reardon Co 7501 Page Av St Louis 14 Mo
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Selek (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Sisk (R J) Co New London Conn
Standard Paste & Glue Co Inc 3620 W 38th Chicago Ill
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Superior Plastic Inc 410-430 N Oakley Blvd Chicago 12 Ill
Technical Supply Co 1911 University Av Palo Alto Cal
Tileboard Corp 2550 Atlantic Av Brooklyn NY
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
Tilette Cement Co Inc 401 Lafayette New York 3 NY
Wallace Mfg Co 10th & Fayette Kansas City Mo
Webb Prods Co 216 S "G" San Bernardino Cal
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
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THE ARROW-HART & HEGEMAN ELECTRIC COMPANY
103 HAWTHORN ST., HARTFORD 6, CONN., U.S.A.

OFFICES, SALES ENGINEERS AND WAREHOUSES IN: ATLANTA, BOSTON, BUFFALO, CHICAGO, CINCINNATI, CLEVELAND, DALLAS, DETROIT, HOUSTON, INDIANAPOLIS, KANSAS CITY, MO., LOS ANGELES, MILWAUKEE, MINNEAPOLIS, NEW YORK, PHILADELPHIA, PITTSBURGH, ST. LOUIS, SAN FRANCISCO. In Canada: ARROW-HART & HEGEMAN (CANADA) LTD., MT. DENNIS, TORONTO. In England: ARROW ELECTRIC SWITCHES, LTD., EALING, LONDON W5.

THE ARROW-HART & HEGEMAN ELECTRIC CO.
Wiring Device Division
103 Hawthorn Street, Hartford 6, Conn.

Please send me the following: ☐ *The Complete A-H Wiring Device Catalog*
☐ *Booklet "Easier Living—Electrically" featuring A-H package plan.*

AB-4

NAME _____
POSITION _____
COMPANY _____
CO. ADDRESS _____
CITY _____ ZONE ____ STATE _____

WITH **Jiffy**

SAWHORSE BRACKETS

- NO NAILS
- NO BOLTS
- NO SCREWS

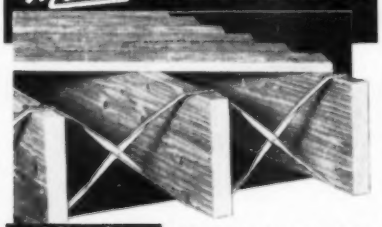
All welded construction. Use any 2x4s for legs and crossbar.

Set up or knocked down instantly. Easy to move from job to job, and easy to store.

For sale in most hardware and lumber stores. If your dealer cannot supply you, write us direct.

GRAND HAVEN STAMPED PRODUCTS CO.
GRAND HAVEN, MICH.

Bridge Wood Joists FASTER, BETTER
...AND AT LOWER COST
WITH CHAN-L-CROS® *Metal* CROSS BRIDGING



4 Sizes for 8"-10"-12" Beams Placed on 12" up to 24" Centers

• Eliminates Sawing and Fitting of Wood Braces • Comes Packaged, Ready for Easy Installation • All-Steel, Excells in Effective Strength, Durability • Superior Performance Under Load, Works on the Principle of Tension

Save time, save money, and provide greater floor strength by bridging joists with Chan-L-Cros! Unlike ordinary wood bridging that is nailed to the sides of joists, Chan-L-Cros is nailed to the Top and Bottom Edges — prevents deflection of beams by the Tension method. Under load, the metal braces cannot separate from beams at points of attachment, nor can withdrawal of nailing result. Thus, Chan-L-Cros is *always* prepared to effectively keep long joist spans in proper alignment. Provision for nailing meets requirements of all building codes. It offers you many more advantages. Investigate!

Write for Details Today!

JUNIOR-PRO PRODUCTS CO.
3206 Morganford Rd., St. Louis 16, Mo.

INSTALL IN FOUR EASY STEPS

CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Christy Co Inc 5040 Daggett Av St Louis 10 Mo
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Tileboard Corp 1314 Blondell Av New York 61 NY
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reardon Co 7501 Page Av St Louis 14 Mo
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wesco Waterpaints Inc Matteson Ill

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Adensite Co Inc 37-19 23rd Long Island City NY
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Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Armor Laboratories Inc Commercial & Doran St Glendale 3 Cal
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Ceresit Waterproofing Corp 3227 S Shields Chicago Ill
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Tenth & 44th Av Long Island 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Lastick Prods Co 203 Iroquois Bldg Pittsburgh 13 Pa
Lehon Co 4425 S Oakley Chicago 9 Ill
Logan-Long Co 6600 S Central Av Chicago 38 Ill
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Natural Guard Prods 757 Madison Memphis 7 Tenn
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Ranetite Mfg Co Inc 1917 S Broadway St Louis Mo
Smooth-On Mfg Co 568-574 Communipaw Av Jersey City 4 NJ
STANDARD DRY WALL PRODS INC BOX X NEW EAGLE PA
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sullivan Co 212 E Trigg Memphis 2 Tenn
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Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Texas Co 135 E 42nd New York 17 NY
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Caniff at Grand Trunk RR Detroit 11 Mich
Webb Prods Co 216 "G" San Bernardino Cal
X-Pando Corp 43-15 36th Long Island City 1 NY

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American Chain Div American Chain & Cable Co Inc York Pa
Campbell Chain Co York Pa
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Esco Chain Wks 209 E 22nd New York NY
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Hodell Chain Co Div of the National Screw & Mfg Co 3924 Cooper Av Cleveland 3 Ohio
Independent Lock Co 1950 Cleghorn Fitchburg Mass
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
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Round Chain Cos Broadway & Chaincraft Rd Cleveland 5 Ohio
Taylor (S G) Chain Co Box 509 Hammond Ind
TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN
Western Chain Co 1807 Belmont Av Chicago 13 Ill
Western Foundry Co 2400 SW Water Av Portland 1 Ore

CHALK LINES

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Carpenter (George B) & Co 401 N Ogden Av Chicago Ill
Cedarberg Mfg Co 545 S 4th Minneapolis 15 Minn
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Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky
Raucher Mfg Co Norwich Conn
SAMSON CORDAGE WKS 80 BROAD BOSTON 10 MASS
Tennessee Line & Twine Co 705 Lynn Av Elizabethton Tenn
Tru-Line Co 707 Locust Des Moines Iowa
Turner & Stanton Co Norwich Conn
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn

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Acme Brick Co Box 425 Fort Worth Tex
Adams Co Box 268 Dubuque Iowa
American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Bowerston Shale Co Bowerston Ohio
Business Service 122 N 7th St Louis 1 Mo
Cannelton Sewer Pipe Co Inc 4th & Washington Cannelton Ind
Dennison Sewer Pipe Corp 3334 Prospect Av Cleveland 15 Ohio
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Evans Brick Co Uhrichsville Ohio
Evans Pipe Co 23 Newport Av Uhrichsville Ohio
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gichner Inc 1900 Kendall NE Washington 2 DC
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston 1 Tex
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
Logan Clay Prods Co Logan Ohio
Maple City Furnace Co Monmouth Ill
NATIONAL CLAY PIPE MFRS INC 100 N LA SALLE ROOM 2100 CHICAGO 2 ILL
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Northwestern Terra Cotta Corp 1750 W Wrightwood Chicago 14 Ill
Pacific Clay Prods 306 W Avenue 26 Los Angeles 31 Cal
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Perma-Top Co 410 Shadyhill Rd Pittsburgh 5 Pa
Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Robinson & Son Sewer Pipe Co 1500 Union Commerce Bldg Cleveland 14 Ohio
Sterling Foundry Co Box 457 Sterling Ill
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio
Streator Drain & Tile Co Streator Ill
Superior Clay Corp Uhrichsville Ohio
Tesco Inc 110 S Norfolk Tulsa Okla
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 41 Ohio
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

CHISELS

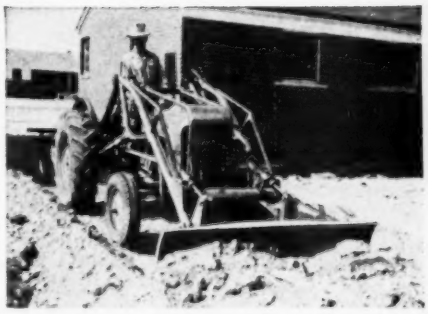
Baltimore Tool Wks 1110 Race Baltimore 30 Md
Billings & Spencer Co 12 Laurel Hartford 1 Conn
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Champion-De Arment Tool Co Meadville Pa
Cincinnati Tool Co Norwood Cincinnati 12 Ohio

DEARBORN INDUSTRIAL LOADER for the FORD TRACTOR

Here's a steady profit producer—a great manpower saver—on many dirt and material moving jobs. The Dearborn Industrial Loader lifts and dumps 9 cu. ft. of material at any height from ground level up to 10½ feet. Two hydraulic cylinders control and stabilize bucket action. The separate hydraulic pump that powers the loader is mounted on the tractor, thus freeing the Ford Tractor's Hydraulic System to operate blades, scoops and other rear-attached tools, even during loader operation.

And the capacity, reach and speed of lift, economy and over-all performance of the Dearborn Industrial Loader are equal to or exceed those of any other loader designed for use with the Ford Tractor.

Yet, with all this, the Dearborn Industrial Loader's low purchase price—low operating cost—make it a profit producer on a wide range of jobs. See it soon at your nearby Ford Tractor Dealer's!



DEARBORN ANGLE DOZER

Extends Loader's Uses!

This sturdy six-foot blade handles back-filling, grading, windrowing and clean-up jobs in a hurry. Angle and pitch are easily adjustable . . . blade lifts and lowers hydraulically. Attaches to Dearborn Industrial Loader with low cost adapter unit.

TRACTOR AND IMPLEMENT DIVISION, Ford Motor Company, Birmingham, Mich.

Ford TRACTOR

SO EASY TO INSTALL!

GREAT DESIGN!

LASTING SATISFACTION!

Home Builders— Home Designers— Home Owners— all prefer these fine

BILT-WELL PRODUCTS

BILT-WELL CABINETS

BILT-WELL AWNING WINDOWS

BILT-WELL WINDOWS

Sold by leading Lumber Dealers

Manufactured by

CARR, ADAMS & COLLIER COMPANY

ESTABLISHED 1866 DUBUQUE, IOWA

The complete line of Bilt-Well Woodwork: Complete Unit Windows, Casements, Awning Windows, Kitchen Cabinets, Multiple-use Cabinets, Overhead Garage Doors, Combination Doors, Storm & Screen Units, Basement Windows, Shutters, Exterior and Interior Doors, Entrances, Gable Sash, Louvers, Corner China Cabinets, Mantels, Telephone Cabinets and Stair Parts

Twice as weathertight yet requiring only one-tenth the lifting effort.

Made of clear, kiln-dried Ponderosa Pine. Water repellent treated in strict accordance with NWMA standards. Adaptable to various wall thicknesses and standard types of construction.

The exclusive BILT-WELL jamb-liner weatherstrip

BILT-WELL Superior WINDOWS

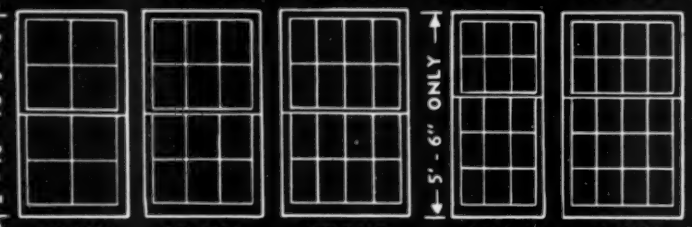
AVAILABLE IN ALL STANDARD WIDTHS 1'-4" TO 3'-8"

2'-10" TO 5'-6"

BW-2772 BW-2741 BW-2767 BW-2760 BW-2764

2'-10" TO 5'-6"

5'-6" ONLY



BW 2776 BW-2740 BW-2750 BW-2743 BW-2753

STANDARD SIZES

GLASS SIZE	STUD OPENING	GLASS SIZE	STUD OPENING
16" x 16"	1'-11" x 3'-8"	20" x 22"	2'-3" x 4'-8"
16" x 20"	1'-11" x 4'-4"	20" x 24"	2'-3" x 5'-0"
16" x 24"	1'-11" x 5'-0"	20" x 26"	2'-3" x 5'-4"
20" x 14"	2'-3" x 3'-4"	20" x 28"	2'-3" x 5'-8"
20" x 16"	2'-3" x 3'-8"	24" x 14"	2'-7" x 3'-4"
20" x 18"	2'-3" x 4'-0"	24" x 16"	2'-7" x 3'-8"
20" x 20"	2'-3" x 4'-4"	24" x 18"	2'-7" x 4'-0"

GLASS SIZE	STUD OPENING	GLASS SIZE	STUD OPENING	GLASS SIZE	STUD OPENING
24" x 20"	2'-7" x 4'-4"	28" x 28"	2'-11" x 5'-8"	36" x 26"	3'-7" x 5'-4"
24" x 22"	2'-7" x 4'-8"	32" x 16"	3'-3" x 3'-8"	36" x 28"	3'-7" x 5'-8"
24" x 24"	2'-7" x 5'-0"	32" x 20"	3'-3" x 4'-4"	36" x 30"	3'-7" x 6'-0"
24" x 26"	2'-7" x 5'-4"	32" x 24"	3'-3" x 5'-0"	40" x 24"	3'-11" x 5'-0"
24" x 28"	2'-7" x 5'-8"	32" x 26"	3'-3" x 5'-4"	40" x 26"	3'-11" x 5'-4"
24" x 30"	2'-7" x 6'-0"	32" x 28"	3'-3" x 5'-8"	40" x 28"	3'-11" x 5'-8"
28" x 20"	2'-11" x 4'-4"	36" x 16"	3'-7" x 3'-8"	40" x 30"	3'-11" x 6'-0"
28" x 24"	2'-11" x 5'-0"	36" x 20"	3'-7" x 4'-4"	40" x 32"	3'-11" x 6'-4"
28" x 26"	2'-11" x 5'-4"	36" x 24"	3'-7" x 5'-0"	40" x 36"	3'-11" x 7'-0"

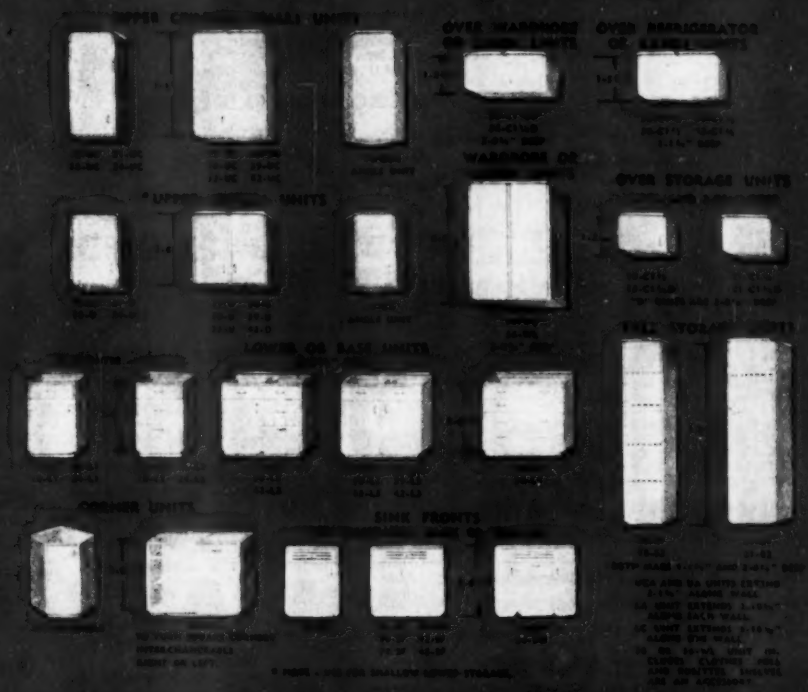
BILT-WELL KITCHEN AND MULTIPLE USE CABINETS

The Cabinets with the rounded corners.

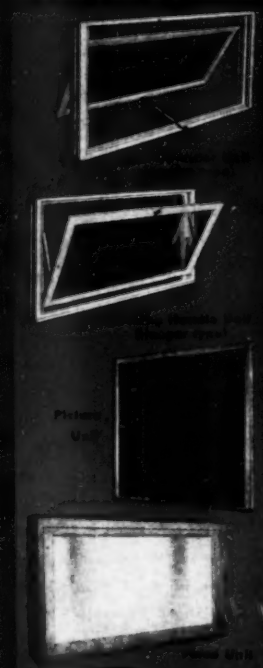
Each Unit Carton Packed

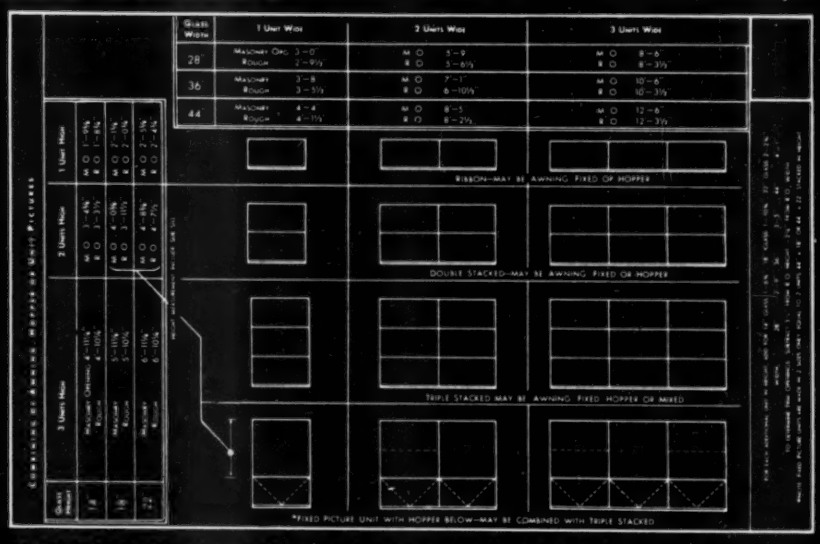
Ideal for kitchens, bedrooms, bathrooms and halls...for new or old homes...for any size or shape of room. Easily scribed to fit irregular walls.

Bilt-Well Cabinets are made in separate units, K.D., semi-assembled, fully manufactured, prefitted and ready to put together. They can be decorated to fit each individual's taste.



BILT-WELL AWNING WINDOWS can be combined in numerous ways





MATERIAL: Ponderosa Pine toxic water repellent treated.

GLAZING: Sash are clamp glazed with SSB glass. Removable bead to reglaze when necessary. Double glazing panels. SSB glass with aluminum surround. Picture unit glazed 1/8" thick glass through 3/4" insulating glass.

SCREENS: Wood (see material) with aluminum wire cloth alternate: Aluminum framed screens available.

WEATHERSTRIP: Anodized special alloy aluminum.

HARDWARE: Friction Slide Hinge, Bar Operator installed, Locking Handle, etc., in envelope.

Build Well with

Cleveland Steel Tool Co 660 E 82nd Cleveland 8 Ohio
Damascus Steel Prods Corp Rockford Ill
Delaware Tool Steel Corp Wilmington 99 Del
Disston (Henry) & Sons Inc Tacony Station Philadelphia 35 Pa
Drew (C) & Co Inc Maple St Kingston 7 Mass
Dura-Bilt Tool Co Inc 60 North Av Box 216 Natick Mass
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Fairmount Tool & Forging Co 10611 Quincy Av Cleveland Ohio
Forest City Bit & Tool Co 1206 Kishwaukee Rockford Ill
Fuller Tool Co 905 Faile Bronx 59 NY
General Hdwe Mfg Co Inc 80 White New York 13 NY
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Graham (John H) & Co Inc 105 Duane New York 7 NY
GREENLEE TOOL CO 2136 TWELFTH ROCKFORD ILL
Heller Bros Co Heller Dr Newscomerstown Ohio
Hood Bros 4326 Orchard Frankford Philadelphia 24 Pa
Kraeuter & Co Inc 581-18th Av Newark NJ
Leetonia Tool Co 142 Main Leetonia Ohio
Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass
Mephisto Tool Co Inc Box 16 Hudson NY
Millers Falls Co Greenfield Mass
Owatonna Tool Co 341 Cedar Owatonna Minn
P & C Hand Forged Tool Co Portland 22 Ore
Peck, Stow & Wilcox Co Mill St Southington Conn
Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa
Proto Tool Co 2209 Santa Fe Los Angeles Cal
Rainey-Tools Grove City Pa
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
STANLEY TOOLS DIV STANLEY WKS NEW BRITAIN CONN
Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa
Union Hdwe Co Sealand Inc Torrington Conn
Vaughan & Bushnell Mfg Co 135 S La Salle Chicago 3 Ill
Vlchek Tool Co 3001 E 97th Cleveland 4 Ohio
Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass
Warren Tool Corp Box 791 Warren Ohio
Wilde Drop Forge & Tool Co 2942 Fairmont Av Kansas City 8 Mo
Winsted Edge Tool Wks Winsted Conn
Woodings-Verona Tool Wks Verona Pa

CHUTES, COAL

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Brady Conveyors Corp 29 W Jackson Chicago 4 Ill
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Decatur Iron & Steel Co 2nd St W Decatur Ala
Donley Bros Co 13910 Mils Av Cleveland 5 Ohio
Harris Inc 200 E Long Columbus Ohio
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Texas
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Jeffrey Mfg Co 827 N 4th Columbus 16 Ohio
Klauer Mfg Co Dubuque Iowa
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
MAJESTIC CO HALL ST HUNTINGTON IND
Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky
Richmond Engineering Co 7th & Hospital Richmond 5 Va
VENTO STEEL PRODS CO INC 250 COLORADO AV BUFFALO 15 NY

CHUTES, DUST

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Allington & Custis Mfg Co 1810 Holland Av Saginaw Mich
Kluegel (Ernest) & Co 169 W Kellogg Blvd St Paul 2 Minn
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH

CHUTES, LAUNDRY

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Cox (H F) & Co 601 Ottawa Av NW Grand Rapids Mich
Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Pa
Kluegel (Ernest) & Co 169 W Kellogg Blvd St Paul 2 Minn
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO

CIRCUIT BREAKERS

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo
BULLDOG ELECTRIC PRODS CO 7610 JOSEPH CAMPAU DETROIT 32 MICH
Federal Electric Prods Co 50 Paris Newark 5 NJ
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN
Hathaway & Co Jersey City 3 NJ
Trumbull Components Dept General Electric Co Plainville Conn
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

CIRCULATORS, HOT WATER HEATING SYSTEMS

BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Taco Heaters Inc 137 South St Providence RI
THRUSH (H A) & CO PERU IND
Triplex Heating Specialties Co 242-68 Grant Peru Ind

CLAMPS, "C"

Adjustable Clamp Co 417 N Ashland Av Chicago 22 Ill
Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill
Batavia Clamp Co Inc 101 Center Batavia NY
Billings & Spencer Co 12 Laurel Hartford 1 Conn
Black Bros Inc 503-9th Av Mendota Ill
Burson Clip System Inc 2447 S Indiana Av Chicago 16 Ill
Carpenter & Patterson Inc 1190 Bennington East Boston 28 Mass
Cincinnati Tool Co Norwood Cincinnati 12 Ohio
Dayton Sure-Grip & Shore Co 504 Kercher Miamisburg Ohio
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio
Handy Mfg Co 2432 W Lawrence Chicago 25 Ill
Littlestown Hdwe & Foundry Co Littlestown Pa
Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY

CLAMPS, CARPENTER STEEL BAR

Adjustable Clamp Co 417 N Ashland Av Chicago 22 Ill
Batavia Clamp Co Inc 101 Center Batavia NY
Black Bros Inc 503-9th Av Mendota Ill
Cincinnati Tool Co Norwood Cincinnati 12 Ohio
Francis (Charles E) Co 1385 Etna Av Huntington Ind
Handy Mfg Co 2432 W Lawrence Chicago 25 Ill
Hartford Clamp Co 466 Park Av East Hartford Conn
Malleable Iron Fittings Co 21 Thatcher Branford Conn
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa
Phoenix Hdwe Mfg Co Perry & Illinois St Buffalo NY
Taylor (James L) Mfg Co 108 Parker Av Poughkeepsie NY

CLAMPS, CONCRETE CONSTRUCTION

Adjustable Clamp Co 417 N Ashland Av Dept L Chicago 22 Ill
American Ladder Co 5509 NW 7th Av Miami 38 Fla
Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind
Batavia Clamp Co Inc 101 Center Batavia NY
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio
Dayton Sure-Grip & Shore Co 504 Kercher Miamisburg Ohio
Fischer & Hayes Rope & Steel Co 4018 West Lake Chicago Ill
M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY
Universal Form Clamp Co 1238 N Kostner Chicago 51 Ill
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

CLAMPS, FILING

Adjustable Clamp Co 417 N Ashland Chicago 22 Ill
Disston (Henry) & Sons Tacony Station Philadelphia 35 Pa
Hanchett Mfg Co 906 N State Big Rapids Mich

CLAMPS, STEEL

Adjustable Clamp Co 417 N Ashland Av Dept B Chicago 22 Ill
Briggs Mfg Co 3001 Miller Av Detroit 11 Mich
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio
Judd (H L) Co 87 Chambers New York 7 NY
Marvel Equipment Co 1055 Bowen Oshkosh Wis

CLAMPS, WOODWORKERS'

Adjustable Clamp Co 417 N Ashland Chicago Ill
Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill
Batavia Clamp Co Inc 101 Center Batavia NY
Black Bros Co Mendota Ill
Cincinnati Tool Co Norwood Cincinnati Ohio
Grand Specialties Co 3101 W Grand Chicago Ill
Handy Mfg Co 2440 W Lawrence Chicago 25 Ill
Hartford Clamp Co 466 Park Av East Hartford Conn
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids Mich
Malleable Iron Fittings Co 21 Thatcher Bradford Conn
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Taylor (James L) Mfg Co 128 Parker Av Poughkeepsie NY
Union Tool Co 48 E River Orange Mass

CLEANERS, HAND

Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass
Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Dennis Chemical Co 2701 Papin St Louis Mo
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Lasting Prods Co Franklintown Rd Baltimore 23 Md
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Oaklite Prods Inc 19 Rector New York 6 NY
Pacific Chemical Co 6019 District Blvd Los Angeles 12 Cal
Penetone Co 74 Hudson Av Tenafly NJ
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Speco Inc 7308 Associate Av Cleveland 9 Ohio

CLEANERS, PAINT BRUSH

Barr (W M) & Co Box 3518 Memphis 6 Tenn
Bengel Co 214 St Nicholas Av New York 27 NY
Boston Varnish Co 114 Second Everett Mass
Boyer Chemical Laboratory Co 2236 S Wabash Av Chicago Ill
Boyle-Midway Inc 257 Cornelison Av Jersey City 2 NJ
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass
Christy Co Inc 5040 Daggett Av St Louis 10 Mo
Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio
Commercial Solvents Corp 17 E 42nd New York 17 NY
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Coughlan (G N) Co 29 Spring West Orange NJ
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Hanlon & Goodman Co Belleville NJ
Kleen Chemical Co School La E of Ridge Philadelphia 29 Pa
Kyanize Paints Inc Second & Boston St Everett 49 Mass
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
Oakite Prods Inc 19 Rector New York 6 NY
Patent Cereals Co Bradford St Geneva NY
Penetone Co 74 Hudson Av Tenafly NJ
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E Second Los Angeles 12 Cal

3 Great Weatherproofing Products

Providing Quality Construction at Minimum Cost!

SISALKRAFT for lifelong protection against water — moisture — wind and dust. Tough and waterproof to do dozens of jobs well.

1. For waterproof membrane between fill and slab
2. Under all finished flooring
3. For curing and protecting concrete
4. For protecting temporary buildings
5. For protecting machinery and materials

FOR SIDEWALLS — Costs 50% less than "bulk" or "blanket" types of insulation. Provides protection against condensation damage and keeps heat in during winter — and out during summer.

SISALATION for combined reflective insulation and vapor-barrier — both surfaces coated with pure aluminum.

FOR FLOORS — Applied under or between floor joists, SISALATION provides both insulation and moisture protection . . . at a single low application cost.

Sisalation plus Sisalkraft provides complete protection

1. Against wood rotting
2. Against paint peeling
3. Against draft and dust
4. Against heat loss in winter
5. Against heat penetration in summer

COPPER ARMORED SISALKRAFT

For all concealed flashing and waterproofing — Electro sheet copper — laminated to heavy creped kraft, reinforced with tough fibres.

Provides the protective value of copper at 1/5 the cost of heavy sheets.

SISALKRAFT Stock Sizes: 36"—225 sq. ft. and 500 sq. ft.; 48"—666 sq. ft.; 60" — 1000 sq. ft. and 1500 sq. ft.; 72" — 1000 sq. ft. and 1800 sq. ft.; 84" — 1000 sq. ft. and 2100 sq. ft.; 96" — 1200 sq. ft. and 2400 sq. ft.

SISALKRAFT "Blankets": In widths from 8' 6" to 26' 6" lengths up to 100 ft.

SISALATION Stock Sizes: 36" — 500 sq. ft.; 48" — 666 sq. ft.

COPPER ARMORED Stock Sizes: Available now in weights of 1, 2, and 3 oz. of copper per sq. ft. Widths from 4" to 60".

WRITE Dept. AB-4, Attleboro, Mass. for Builder's file on application.

SISALKRAFT PRODUCTS

AMERICAN SISALKRAFT CORPORATION

Attleboro, Mass. • Chicago 6, Ill.
San Francisco 5, Calif. • New York 17, N. Y.

Available at Lumber and Building Supply Dealers Everywhere

Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Wilson-Imperial Co 115 Chestnut Newark 5 NJ
Wisconsin Laboratories Inc Dousman Wis

CLEANERS, PAINT BRUSH, ELECTRIC

Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill

CLEANERS, PAINT & VARNISH

DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Economics Laboratory Inc 914 Guardian Bldg St Paul 1 Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Lowe Bros 436 E 3rd Dayton 2 Ohio
Oakite Prods Inc 19 Rector New York 6 NY
Pacific Chemical Co 6019 District Blvd Los Angeles 12 Cal
Patent Cereals Co Bradford St Geneva NY
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Procter & Gamble Co Gwynne Bldg Cincinnati 1 Ohio
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
Socony-Vacuum Oil Co 26 Broadway New York 4 NY
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Wesco Waterpaints Inc Matteson Ill

CLIPS, BRIDGING & JOISTS, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bethlehem Steel Co 701 E Third Bethlehem Pa
Conver Steel & Wire Co 621 E 132nd New York 54 NY
MARSH CO HASTINGS NEBR
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

CLIPS, CONCRETE

American Expansion Bolt & Mfg Co 909 N Spaulding Chicago Ill
CECO STEEL PRODS CORP 5601 W 26TH CICERO 50 ILL
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio
Heckmann Building Prods Co 4018 West Lake Chicago Ill
Merwin Mfg Co 19th & German Erie Pa
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY
Sommer Metalcraft Co 315 Poston Dr Crawfordsville Ind
Union Steel Prods Co 242 N Berrien Albion Mich
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich
Winner Industries 1023 Washington Av South Minneapolis 15 Minn

CLIPS, FLOOR

Bethlehem Steel Co 701 E Third Bethlehem Pa
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Dayton Sure-Grip & Shore Co 504 Kercher Miamisburg Ohio
Heckman Bldg Prods Co 4018 W Lake Chicago 24 Ill
Hohmann & Barnard Inc 204 E 33rd New York 16 NY
Merwin Mfg Co 19th & German Erie Pa
NEW MONARCH MACHINE & STAMPING CO 406 SW NINTH DES MOINES 9 IOWA
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Peterson Prods Co 1013-15 N Bluff Janesville Wis
Sommer Metalcraft Co 315 Poston Dr Crawfordsville Ind
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO

CLIPS, GLAZING FOR STEEL SASH

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Harris Inc 200 E Long St Columbus 15 Ohio
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind
Young (L A) Spring & Wire Corp Detroit Mich

CLIPS, PLASTERBOARD, LATH, CEILING, ACOUSTICAL TILE

Burson Clip System Inc 2441 S Indiana Av Chicago Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

CLIPS, PLASTER LATH, SPRING

NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 W 42ND NEW YORK 17 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

CLIPS, ROOFING

CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Nova Sales Co Trenton 3 NJ
Oiljak Mfg Co Depot Sq Montclair NJ
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Seal-All Clip Co Box 302 4376 W Pasadena Flint Mich

CLIPS, WALLBOARD & CEILING TILE

E G Bldg Fasteners Corp 101 Park Av Room 1133 New York 17 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
Klein Mfg Co Burlington Iowa
Peterson Prods Co 1013-15 N Bluff Janesville Wis
UPSON CO 43 UPSON PT LOCKPORT NY
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

CLIPS, WIRE ROPE

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio
Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio
Moline Iron Wks Moline Ill
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Roebling's (John A) Sons Corp Broad & Neroni St Trenton 2 NJ
US Expansion Bolt Co State & PRR York Pa
Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

CLOTHES DRYERS

Altorfer Bros Co 812 W Washington East Peoria 8 Ill
Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio
Automatic Washer Co Newton Iowa
Beh & Co Inc 1150 Broadway New York NY
Bendix Home Appliances Inc Div Avco Mfg Corp 3300 W Sample South Bend Ind
Blackstone Corp 1032-88 Allen St Ext Jamestown NY
Brainard Industries Inc 152 S 15th Lindenhurst LI NY
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND OHIO
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ
Chicago Dryer Co 2210-20 N Pulaski Rd Chicago 39 Ill
Clay Equipment Corp 23 Builder Cedar Falls Iowa
Conlon Moore Corp 1824 S Laramie Cicero 50 Ill
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO
Dearborn Stove Co 1700 W Commerce Dallas Tex
Easy Washing Machine Corp Solar & Spencer St Syracuse 1 NY
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL ELECTRIC CO MAJOR APPLIANCE CO 310 W LIBERTY LOUISVILLE 2 KY
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Hamilton Mfg Co 1316 18th Two Rivers Wis
Handy Things Mfg Co North Rowe St Ludington Mich
Herbster Prods 5309 Euclid Av Cleveland Ohio
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
Howard Mfg Co of Calif 2428 E 56th Los Angeles 58 Cal
Ironer Div of Speed Queen Corp Algonquin Ill
Kraus (Walter S) Co 48-02 43rd Woodside LI NY
Maytag Co Newton Iowa
Moulton Ladder Mfg Co 2-40 Harding Somerville Mass
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY
Odin Stove Mfg Co 342 W 12th Erie Pa
Roper (Geo D) Corp Blackhawk Park Av Rockford Ill
Rotary Clothes Dryer Co Inc 840 Lawrence Allentown Pa
Scientific Heater Co Cleveland Ohio
Southern Galvanizing Co 1620 Bush AB Baltimore 30 Md
Speed Queen Corp Ripon Wis
TEMCO INC 4104 PARK AV NASHVILLE 9 TENN
Tennessee Enamel Mfg Co 4104 Park Av Nashville 9 Tenn
THOR CORP 2115 S 54TH AV CHICAGO 50 ILL
Universal Major Electric Appliance Co Box 119 Lima Ohio
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO
Whirlpool Corp St Joseph Mich
Woodenware Prods Corp 122 N 7th St Louis 1 Mo

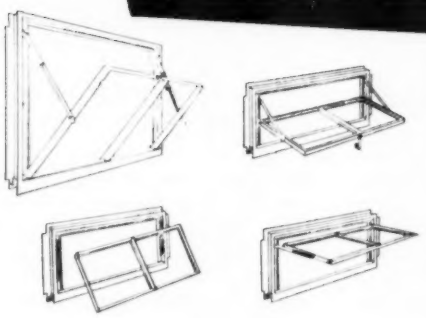
CLOTHES LINE HOLDERS, HOOKS & BARS

Acme Metal Goods Mfg Co 2 Orange Newark 2 NJ
Boxaroy Mfg Corp 2510 N Chico El Monte Cal
Champion Hdwe Co Geneva Ohio
Fawsco Mfg Div 1703 Front Cuyahoga Falls Ohio
Judd (H L) Co 87 Chambers New York 7 NY
Larson (Charles O) Co Avenue "G" & C & NW Ry Sterling Ill
Lawrence Bros Sterling Ill
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Rop-Loc Prods Co 16110 Brookpark Rd Cleveland Ohio
Safe Padlock & Hdwe Co Second & Crystal St Lancaster Pa
SARGENT & CO 45 WATER ST NEW HAVEN CONN
Sharon Hdwe Mfg Co Sharon Pa
Shuford Mills Inc Drawer 340 Hickory NC
Southern Galvanizing Co 1620 Bush AB Baltimore 30 Md

CLOTHES LINE POLES & POSTS, WOOD, STEEL, IRON

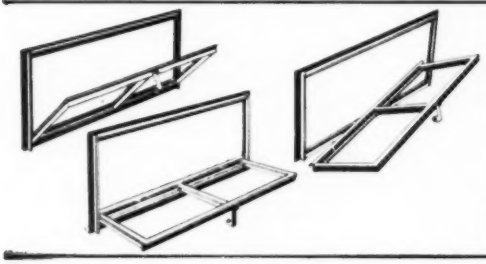
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Banks Steel Post Co Newark NJ
Beh & Co Inc 1150 Broadway New York NY
Century Fence Co Box 466 Waukesha Wis
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ
CINCINNATI IRON FENCE CO 2101 FLORENCE CINCINNATI OHIO
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Dept AB Cincinnati 23 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio

VENTO *Bonderized* STEEL WINDOWS



VENTO "CHAMPION" BASEMENT WINDOWS

Effortless operation gives any of three ventilation openings, or sash removal. Double contact with leak-proof watershed sill stops wind and rain. Sturdy 14 gauge frame, electrically welded throughout. Fins integral to jambs for easy installation in block or poured concrete walls. A redesigned cam latch and slotted opening allow greater closing tolerance, insuring positive operation and latching under all conditions. Available in three standard sizes, putty or puttyless glazing.

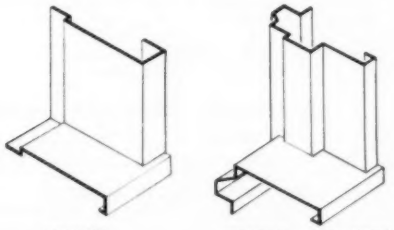


VENTO "THRIFTY" BASEMENT WINDOWS

A real economy window especially designed to meet the requirements of lower cost housing. An attractive window of sturdy construction, smooth operation, two position ventilation and easy sash removal. Fin flanges at jambs for quick installation. Available in three standard sizes, putty type only.

VENTO CASEMENT WINDOWS

Solid steel sections, cleaned, bonderized and dip coat painted for rust-resisting protection. Extension type hinges for ease in cleaning. Positive cam action locking handle insures double contact weathertight seal around perimeter of the ventilator. All casements drilled and tapped to receive storm sash and screens, operator arm guide channels attached with screws for easy removal and replacement, if necessary; ventilator frames constructed from the same heavy sections as the outside frame. Vento Casement Screens, attach to inside of window and do not interfere with ventilator adjustments. Vento Casement Storm Sash made to completely cover the glass area.



INSIDE INSIDE & OUTSIDE

VENTO INSIDE AND OUTSIDE TRIM

Vento Steel Inside and Outside Trim is made of hot rolled carbon steel, head and jamb section 18 gauge, sills 16 gauge, finished with one prime coat of grey paint. They provide speed in erection and save money by eliminating the cost of plaster returns, stools and trim. Vento Inside and Outside Trim fits all standard size casement windows and mullioned windows up to 6 lights in width. All Trim furnished knocked down.

Also ask about VENTO Formed Steel Lintels (for Block and Brick Construction) VENTO "Champion" Barred Basement Windows; VENTO "Thrifty" Utility and Special Type Windows; VENTO "Champion" Utility and Barn Windows.

Write us for full information

VENTO STEEL PRODUCTS CO., INC.
247 COLORADO AVE., BUFFALO 15, N. Y.

Harris Inc 200 E Long Columbus Ohio
Hohmann & Barnard Inc 204 E 33rd New York 16 NY
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Newark Steel Post Co 19 Park Av West Orange NJ
Rop-Loc Prods Co 16110 Brookpark Rd Cleveland Ohio
Rotary Clothes Dryer Co Inc 840 Lawrence Allentown Pa
Sawhill Mfg Co Sharon Pa
Southern Galvanizing Co 1620 Bush AB Baltimore 30 Md

CLOTHES LINE PULLEYS

Acme Metal Goods Mfg Co 2 Orange Newark 2 NJ
Berkeley Specialties Co 899 Gilman Berkeley 10 Cal
S-R Mfg Co Schenectady NY
Safe Padlock & Hdwe Co Second & Crystal St Lancaster Pa
SARGENT & CO 45 WATER ST NEW HAVEN CONN
STANLEY WKS NEW BRITAIN CONN

COATINGS, CONCRETE FLOOR

Atlas Mineral Prods Co Mertztown Pa
Bakelite Co Div of Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
Camp Co Inc 6958 S State Chicago 21 Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Flash-Stone Co Inc 3723 Pulaski Av Philadelphia 40 Pa
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Lowe Bros 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Maxwell & Hitchcock 191 Simpson NW Atlanta Ga
O'Brien Corp 101 N Johnson South Bend 21 Ind
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Vorac Co 147 Meadow Rd Rutherford NJ

COATINGS, EMULSIFIED ASPHALT

American Asphalt Roof Co 15th & Blue River Kansas City 3 Mo
American Birumuls & Asphalt Co 200 Bush San Francisco Cal
ARMSTRONG CORK CO E LIBERTY ST LANCASTER PA
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Lowe Bros 436 E 3rd Dayton 2 Ohio
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

COATINGS, LINOLEUM

Archer-Daniels Midland Co 600 Roanoke Bldg Minneapolis 2 Minn
Chicago Bronze & Color Wks 2639 W Grand Av Chicago 12 Ill
Dennis Chemical Co 2701 Papin St Louis Mo
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
Lowe Bros 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Minnesota Linseed Oil Paint Co Minneapolis Minn
O'Brien Corp 101 N Johnson South Bend 22 Ind
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Av NW Cleveland 13 Ohio
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Truscon Laboratories Div Devoe & Raynolds Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ

COATINGS, ROOF, ALUMINUM & ASPHALT

Abesto Mfg Corp 131 Wabash Michigan City Ind
Aluminum Industries Inc 2438 Beekman Cincinnati 25, Ohio
American-Marietta Co 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC EAST WALPOLE MASS
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Koppers Co Koppers Bldg Pittsburgh Pa
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Lehon Co 4425 S Oakley Chicago 9 Ill
Lowe Bros 436 E 3rd Dayton 2 Ohio
Meadows (W R) Inc 2 Kimball Elgin Ill
Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio
National Plywoods Inc 2710 Throop Chicago Ill
Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY
Pabco Prods Inc 475 Brannan San Francisco Cal
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
REYNOLDS METALS CO BLDG PRODS DIV 2001 S 8TH LOUISVILLE 1 KY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Sullivan Co 212 E Trigg Memphis 2 Tenn
Texas Co 135 E 42nd New York 17 NY
Tremco Mfg Co 8701 Kinsman Rd Cleveland 14 Ohio
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Vita-Var Corp 10 Commerce Ct Newark NJ
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass

COATINGS, ROOF, ASBESTOS

Badger Corrugating Co 1801-39 West Av S La Crosse Wis
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio

COATINGS, ROOF, ASPHALT

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Ave S La Crosse Wis
Breinig Bros 223 Adams Hoboken NJ
CALBAR PAINT & VARNISH CO 2612-26 N MARTHA PHILADELPHIA 25 PA
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
Ceresit Waterproofing Corp 512 S Canal Chicago 7 Ill
Chemical Supply Co 3540 Norton Cleveland Ohio
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Dad & Lad Co New Lenox Ill
Dewatex Mfg Corp 424 W 42nd New York 18 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Ford Roofing Prods Co 188 W Randolph Chicago 2 Ill
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lehon Co 4425 S Oakley Chicago 9 Ill
Mar-Kay Mfg Co 2715 S 2nd St Louis Mo
Meadows (W R) Inc 2 Kimball Elgin Ill
National Brush Co Porter St Aurora Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Pabco Prods Inc 475 Brannan San Francisco 19 Cal
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

COATINGS, ROOF, LIQUID, BLACK

Arco Co 7301 Bessemer Cleveland 4 Ohio
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
Lehon Co 4425 S Oakley Chicago 9 Ill
Monroe Oil Co Inc 10703 Quebec Av Cleveland 6 Ohio
Nourse Oil Co Clinton & Frisco Tracks Kansas City 8 Mo
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

COLORS, CONCRETE, MORTAR, PLASTER

Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
Blue Ridge Talc Co Inc Henry Va
Ceresit Waterproofing Corp 512 S Canal Chicago 7 Ill
Chicago Bronze & Color Wks 2601-75 W Grand Av Chicago 12 Ill
Clinton Metallic Paint Co Arthur St Clinton NY
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Fox (M Ewing) Co Inc 136th & Rider Av New York 51 NY
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Gordon Chemical Co Inc 1100 Hickory Kansas City Mo
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY

Interstate Brick Co 3100 S 11th East Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Mineral Pigments Corp Washington Blvd Muirkirk 1 Md
Minneapolis Builders Supply Co 927 Second Av So Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA
Ricketson Mineral Color Wks 229 E Wisconsin Av Milwaukee 2 Wis
Rohloff & Co 918 N Western Av Los Angeles 27 Cal
Smith Chemical & Color Co 55 John Brooklyn 1 NY
Smith (George B) Chemical Wks Maple Park Ill
Smith (J Lee) & Co 25 Ann New York 7 NY
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Caniff at Grand Trunk Ry Detroit 1 Mich
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vitro Mfg Co Corliss Sta Pittsburgh 4 Pa
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
Wesco Waterpaints Inc Matteson Ill
Williams (C K) & Co 640 N 13th Easton 2 Pa
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

COLORS, OIL

Boston Varnish Co 114 2nd Everett Mass
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Keystone Varnish Co 71 Otsego Brooklyn 31 NY
Kyanize Paints Inc Second & Boston Sts Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago Ill
Minnesota Paints Inc 1101 3rd S Minneapolis 15 Minn
Moore (Benjamin) & Co 509 Canal New York NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sewall Paint & Varnish Co 1009-11 W 8th Kansas City Mo
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Truscon Laboratories Div Devoe & Raynolds Co Caniff & Grand Trunk Ry Detroit 11 Mich
Vita-Var Corp 10 Commerce Ct Newark NJ

COLORS, PAINT

American Varnish Co 1140 N Branch Chicago 22 Ill
Bengal Co 214 St Nicholas Av New York 27 NY
Boston Varnish Co Everett Sta Boston 49 Mass
Cabot (Samuel) Inc 2348 Oliver Bldg Boston 9 Mass
Chicago Bronze & Color Wks 2601-75 W Grand Av Chicago 12 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4525 W Fifth Av Chicago 24 Ill
Empire Varnish Co 2636 76th Cleveland 4 Ohio
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Kyanize Paints Inc Second & Boston Sts Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros 424 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Mineral Pigments Corp Washington Blvd Muirkirk 1 Md
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sherwin-Williams Co 101 Prospect Av Cleveland Ohio
Truscon Laboratories Inc Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa

COLUMNS, METAL

Abco Aluminum & Brass Wks 5235 Griggs Rd Houston 21 Tex
Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bethlehem Steel Co 701 E Third Bethlehem Pa
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
COFFMAN (R G) CO INC 2809 N ORANGE AVE ORLANDO FLA
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fawsco Mfg Div Falls Stamping & Welding Co 1701 Front Cuyahoga Falls Ohio
Hutchinson Mfg Co Box 11 Cedar Grove Sta Shreveport La
International Steel Co 1321 Edgar Evansville 7 Ind
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Locke Mfg Co Ohio St Lodi Ohio
Logan Co 201 Cabel Louisville 6 Ky
Louden Machinery Co 261 Court Fairfield Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Sawhill Mfg Co Sharon Pa
Sharon Steel Co Sharon Pa
Starline Inc 300 W Front Harvard Ill
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Wolff Prods Inc 71 Elinor Av Akron 5 Ohio

COLUMNS, WOOD

CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Goshen Sash & Door Co E Purl Goshen Ind
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
RILCO LAMINATED PRODS INC 2591 FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
Schwerd (A F) Mfg Co 3215 McClure Av Pittsburgh 12 Pa

COMPOUNDS, ANTI-FREEZE, CONCRETE

American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Ceresit Waterpoofing Corp 3227 S Shields Av Chicago 16 Ill
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Sullivan Co 212 E Trigg Memphis 2 Tenn
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY

COMPOUNDS, ANTI-TERMITE

Abesto Mfg Corp 131 Wabash Michigan City Ind
Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky
C-A Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass
Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee 3 Wis
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Cre-O-Tox Chemical Co Memphis 12 Tenn
Dow Chemical Co 1000 Main Midland Mich
Eastman Chemical Prods Inc Kingsport Tenn
Elroy Naval Stores Co Inc Box 288 Vidalia Ga
Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn
Gordon Chemical Co Inc 1100 Hickory Kansas City Mo
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Hill Termite Control Systems 1200 Commerce Title Bldg Memphis 4 Tenn
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Orkin Exterminating Co Inc 713 W Peachtree NE Atlanta Ga
Pabco Prods Inc 475 Brannon San Francisco 19 Cal
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Protexol Corp 162 Market Kenilworth N J
Sullivan Co 212 E Trigg Memphis 2 Tenn
Termitol Co 3567 Bigelow Blvd Pittsburgh Pa
Vaccinol Sales Co 2487 Penn Av Memphis 9 Tenn
Wood-Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

COMPOUNDS, RUST-PREVENTING & REMOVING

American Chemical Paint Co Box 301 Ambler Pa
American Rust Proof Co 302 Butler Brooklyn NY
Barr (W M) & Co Box 3518 Memphis 6 Tenn
Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass
Camp Chemical Co 170 Second Av Brooklyn 15 NY
Carbozite Protective Coatings Inc 811 S Main Greensburg Pa
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Evercrete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY
Hollingshead (R M) Corp 840 Cooper Camden 2 NJ
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
Neilson Chemical Co Bellevue & Benson Sts Detroit 7 Mich
Oakite Prods Inc 19 Rector New York 6 NY
Parker Rustproof Co 2177 E Milwaukee Detroit 11 Mich
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Protective Coatings Inc Box 3985 Detroit 27 Mich
Puritan Chemical Co Peters & Haynes Sts Atlanta 3 Ga
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Rusticide Co 3125 Perkins Av Cleveland 14 Ohio
Rust-Oleum Corp 2425 Oakton Evanston Ill
Smith Oil & Refining Co Kilburn & Smith Sts Rockford Ill
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Speco Inc 7308 Associate Av Cleveland 9 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stop-Rust Co Box 2054 Chattanooga 9 Tenn
Texas Co 135 E 42nd New York 17 NY
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Vita-Var Corp 10 Commerce Ct Newark NJ
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

CONCRETE BLOCK CUBING MACHINES

BESSER MFG CO ELM ST ALPENA MICH
Stearns Mfg Co Inc 600 E Beecher Adrian Mich

CONCRETE BLOCK DRYING RACKS

BESSER MFG CO ELM ST ALPENA MICH
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo
Market Forge Co 35 Garvey Everett 49 Mass

CONCRETE BLOCK MACHINES

Appley (J W) & Son Inc 831 9th N St Petersburg Fla
BESSER MFG CO ELM ST ALPENA MICH
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Concrete Equipment Co 514 Ottawa Av Holland Mich
Dunn (W E) Mfg Co 415 W 23rd Holland Mich
Economy Mfg Co Stone Mountain Ga
Equipment Engineering Co St Charles Ill
Fleming Mfg Co Cuba Mo
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo
Ford Cement Block Machine Co Cedar Falls Iowa
General Engines Co Inc 307 Hunter Gloucester NJ
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
Hollostone Co North Hollywood Cal
Kent Machine Co Cuyahoga Falls Ohio
LITH-I-BAR CO 54 W 8TH HOLLAND MICH
Mortarless Tile Machine Co Inc 2623 Riverside Dr Los Angeles Cal
Multiplex Machinery Co Div of Multipack Inc Elmore Ohio
O K Mfg Co Minneapolis 1 Minn
Reed (R S) Corp Three Rivers Mich
Stearns Mfg Co Inc 600 E Beecher Adrian Mich
Tyra (R K) Co Highway 61 Tyra Minn

CONCRETE CURING COMPOUNDS

Adensite Co 37-19 23rd Long Island City NY
Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Autolene Lubricants Co 1331 W Evans Denver 9 Colo
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Camp Chemical Co Inc 1560-62 62nd Brooklyn 19 NY
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
Ceresit Waterproofing Corp 3227 S Shields Av Chicago Ill
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dow Chemical Co 1000 Main Midland Mich
Evercrete Corp 424 W 42nd New York 36 NY
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
Fort Pitt Chemical Co 26th & Smallman St Pittsburgh 22 Pa
Fulton Bag & Cotton Mills 170 Boulevard Elsas Atlanta 3 Ga
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Master Builders Co 7016 Euclid Av Cleveland 3 Ohio
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn
Ranetite Mfg Co Inc 1917 S Broadway St Louis Mo
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis
Sullivan Co 212 E Trigg Memphis 2 Tenn
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
Wood Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

CONCRETE FORMS

American Steel Wks 1211 W 27th Kansas City 8 Mo
Appley (J W) & Son Inc 831 9th N St Petersburg Fla
Art Concrete Wks 362 S Fair Oaks Pasadena Cal
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Bay City Cast Stone Block Co 801 S Henry Bay City Mich
Bethlehem Steel Co 701 E Third Bethlehem Pa
BIERSACH & NIEDERMEYER CO 1937 N HUBBARD MILWAUKEE WIS
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Commercial Shearing & Stamping Inc 5767 W 65th Chicago 38 Ill
Des Lauriers Column Mould Co 1000 S Keeler Av Chicago Ill
Economy Forms 4301 E 14th Des Moines Iowa
Fir-Tex Insulating Board Co Porter Bldg Portland Ore
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio
Harrison Supply Co 5186 Coldwater Rd Flint Mich
IRVINGTON FORM & TANK CO 20 VESEY NEW YORK 7 NY
Mecho Prods Co Helen & Ella Pittsburgh Pa
Multiplex Machinery Co Div of Multipack Inc Elmore Ohio
National Plywoods Inc 2710 Throop Chicago Ill
Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY
Rocform Corp 15116 W 8-Mile Rd Detroit 35 Mich
SONOCO PRODS CO SOUTH ST HARTSVILLE SC
SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill
Zeidler Concrete Prods Machinery Co Waterloo Iowa

CONCRETE FORM, METAL MATERIALS

Appley (J W) & Son Inc 831 9th N St Petersburg Fla
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Soule Steel Co 1750 Army San Francisco 24 Cal
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

CONCRETE FORM TIES

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bethlehem Steel Co 701 E Third Bethlehem Pa
GATES & SON INC 80 S GALAPAGO DENVER 19 COLO
Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
Hohmann & Barnard Inc 204 E 33rd New York 16 NY
M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn
Richmond Screw Anchor Co Inc 816 Liberty Av Brooklyn 3 NY
Sheffield Steel Corp Sheffield Sta Kansas City City 25 Mo
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind
SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL
Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich
Winner Industries 1023 Washington Av South Minneapolis 15 Minn

CONCRETE HARDENERS

Adensite Co 37-19 23rd Long Island City NY
American Flurcsit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Armor Laboratories Inc Commercial & Doran Sts Glendale 3 Cal
Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY
Blue Ridge Talc Co Inc Henry Va
Camp Chemical Co 170 Second Av Brooklyn 15 NY
Celadri Corp of New York Columbus Av North Bellmore NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Connelly Inc 3154 S California Chicago 15 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Evercrete Corp 424 W 42nd New York 36 NY
Flexrock Co 36th & Filbert Sts Philadelphia 4 Pa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Master Builders Co 7016 Euclid Av Cleveland 3 Ohio
Rohloff & Co 918 N Western Av Los Angeles 27 Cal
Sika Chemical Corp 35 Gregory Av Passaic NJ
Smooth-On Mfg Co 568-574 Communipaw Av Jersey City NJ
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS INC NEW EAGLE PA
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa
Sullivan Co 212 E Trigg Memphis 2 Tenn
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuferete Co Inc 533 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
Vita-Var Corp 10 Commerce Ct Newark NJ
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

CONCRETE JOIST MACHINES

Appley (J W) & Son Inc 831 9th N St Petersburg Fla
BESSER MFG CO ELM ST ALPENA MICH
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
LITH-I-BAR CO 54 W 8TH HOLLAND MICH

CONCRETE MIXERS, MORTAR, ETC.

Air Placement Equipment Co 1009-11 W 24th Kansas City 8 Mo
Anchor Mfg Co 2932 W 26th Chicago 23 Ill
Appley (J W) & Son Inc 831 9th N St Petersburg Fla
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA
Dunn (W E) Mfg Co 415 W 23rd Holland Mich
Essick Mfg Co 1950 S Santa Fe Los Angeles Cal
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
Foote (J B) Foundry Co Fredericktown Ohio
General Engines Co Inc 307 Hunter Gloucester NJ
Gilson Bros Co Box 315 Fredonia Wis
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO
Knickerbocker Mfg Co 603 Liberty Jackson Mich
Kwik-Mix Concrete Mixer Co Port Washington Wis

Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
MULLER MACHINERY CO INC BOX 248 METUCHEN 4 NJ
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
O K Mfg Co Minneapolis 1 Minn
Smith (T L) Co 2835 N 32nd Milwaukee Wis
Worthington Corp S Second St Plainfield NJ

CONCRETE MIXERS, TRANSIT

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 22 Pa
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Hercules Steel Prods Corp Galion Ohio
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO
Rapids Machinery Co 889-11th Marion Iowa
Smith (T L) Co 2835 N 32nd Milwaukee Wis
Willard Concrete Machinery Co Ltd Lynwood Cal
Worthington Corp S Second St Plainfield NJ

CONCRETE PAVERS

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Worthington Corp S Second St Plainfield NJ

CONCRETE PIPE MACHINES

Appley (J W) & Son Inc 831 9th N St Petersburg Fla
Concrete Pipe Machinery Co W 1st & George Box M-1000 Sioux City 18 Iowa
Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa
Universal Concrete Pipe Co 297 S High Columbus 15 Ohio
Zeidler Concrete Prods Machinery Co Waterloo Iowa

CONCRETE PLANTS, CENTRAL MIXING

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Butler Bin Co 945 Blackstone Av Waukesha Wis
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Erie Steel Construction Co Giest & N P RR Erie Pa
Johnson (C S) Co Box 71 Champaign Ill
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Noble Co 1860 7th Oakland 20 Cal
Worthington Corp S Second St Plainfield NJ

CONCRETE PRODUCTS, PLANT MIXERS

BESSER MFG CO ELM ST ALPENA MICH
Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Dodson Mfg Co Inc 1463 Barwise Wichita 2 Kans
Dunn (W E) Mfg Co 415 W 23rd Holland Mich
Fleming Mfg Co Cuba Mo
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO
Johnson (C S) Co Box 71 Champaign Ill
Kent Machine Co Cuyahoga Falls Ohio
Multiplex Machinery Co Div of Multipack Inc Elmore Ohio
Smith (T L) Co 2835 N 32nd Milwaukee Wis
Stearns Mfg Co 600 E Beecher Adrian Mich
Supermix 401 Grace Adrian Mich
WINSLOW GOVERNMENT STANDARD SCALE WKS INC 25TH & HAYTHORNE AV TERRE HAUTE IND
Worthington Corp S Second St Plainfield NJ

CONCRETE PRODUCTS PLANTS

Anchor Concrete Machinery Co 1191 Fairview Columbus 12 Ohio
Appley (J W) & Son Inc 831 9th N St Petersburg Fla
BESSER MFG CO ELM ST ALPENA MICH
Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Butler Bin Co 945 Blackstone Av Waukesha Wis
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Equipment Engineering Co St Charles Ill
Erie Steel Construction Co Giest & N P RR Erie Pa
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
Johnson (C S) Co Box 71 Champaign Ill
O K Mfg Co Minneapolis 1 Minn
Stearns Mfg Co Inc 600 E Beecher Adrian Mich

CONCRETE SEALERS

American Asbestos Prods Co 8000 Franklin Blvd Cleveland Ohio
American Crayon Co Sandusky Ohio
AMERICAN FLOOR SURFACING MACHINE CO 527 ST CLAIR TOLEDO 3 OHIO
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati Ohio
Atlas Mineral Prods Co Mertztown Pa
Camp Co Inc 6958 S State Chicago 21 Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Claronex Prods Inc 239 Java Brooklyn 22 NY
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Dennis Chemical Co 2701 Papin St Louis Mo
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
O'Brien Corp 101 N Johnson South Bend 21 Ind
Ohio Akona Co 1416 Victoria Av Lakewood 7 Ohio
Re-Nu-It Corp 424 W 42nd New York 36 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Rohloff & Co 918 N Western Av Los Angeles 27 Cal

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- For interior and exterior installations.
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- Specifications: Stock thickness—1¾"—in wide range of standard sizes. Face veneers: oak, birch, walnut, Korina* and other hardwoods.

GUARANTEE: This door, when properly installed under normal service conditions, is guaranteed against warping for the life of its installation. Should warping occur, it will be replaced without charge.

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- For interior or exterior use.
- Won't warp, cup, shrink, swell or delaminate.
- Specifications: Stock thickness—1¾". (1⅜" and 2¼" on special order.) Stall doors available—1⅛" and 1¼". Face Veneers—birch, Korina*, mahogany, rift oak, walnut and other hardwoods in wide selection of standard sizes.

	FEATURES	BENEFITS	APPLICATIONS	SPECIFICATIONS
WELDWOOD FIRE DOOR	A beautiful wood veneered fire door bearing Underwriters' label, approved for class B and C openings. Also approved by Factory Mutual Labs. Incombustible mineral core is banded with birch treated with Class A fireproofing agent Lightest fire door on the market Guaranteed against warping or binding for life of installation Patent No. 2,593,050	Guaranteed fire protection Low maintenance Lightweight for ease of opening and closing	Ideal for homes with attached garages, institutions, offices, hotels Interior and exterior use	For interior and exterior use STOCK THICKNESS: 1¾" Available in a wide range of sizes, and face veneers of birch and other select hardwoods—domestic and foreign
		GUARANTEE: Weldwood Fire Doors, when properly installed under normal service conditions, are guaranteed against warping or binding in an opening for the LIFE of the installation. Any door found defective will be replaced without charge . . . INCLUDING ALL LABOR COSTS INVOLVED.		
SOLID CORE DOOR	Permanent dimensional stability assured because of exacting, scientific construction. Waterproof glued Virtually warp-free, non-binding	Good-looking inexpensive	For both interiors and exteriors Wherever solid wood core desired	For interior and exterior use Available in wide range of standard sizes, with faces of birch, mahogany, walnut, oak and Korina STOCK THICKNESS: 1¾", also 2¼"
HOLLOW CORE FLUSH DOOR	Lightweight, durable—won't sag, warp or buckle 40 per cent lighter than standard panel doors Long life—slam tested 25,000 times Popularly priced, installed in thousands of houses	Lightweight for ease of opening and closing Economical—can be finished natural or painted	For interior use in sliding doors, closets	For interior use only STOCK THICKNESS: 1⅜"; 1¾" Other sizes, widths and openings cut to special order Available in wide range of standard sizes—faces of gum, birch, oak, walnut, and mahogany
CUPBOARD DOORS	Available in wide range of stock types including NOVOPLY 5-ply Weldwood Cupboard stock or larger-size panels. Solid lumber core stock available, banded on four sides. Permits trimming on each dimension; will not warp, sag, or bind	Beautiful, natural grain requires no finishing, easy to install. Can be painted, stained	Cupboard doors for cabinets in kitchens, bathrooms, bedrooms	Available in wide variety of sizes, veneers and stock faces and thicknesses Veneers available: birch, pine and Douglas Fir or solid NOVOPLY Stock available with either one or two good faces and grades
FIR AND PINE DOORS	All standard designs Easy to install and finish Carefully made, thoroughly inspected interior and exterior applications	Low in cost, attractive looking, matches pine paneling	Ideal for use in homes, offices	Available in wide range of sizes and thicknesses on order
WELDWOOD PARTITION PANELS	Ready-made attractive wood partitions with incombustible mineral core—lightweight, durable Faced with a choice of beautiful hardwoods Simple to install Guaranteed for the "Life of Installation"	Cuts noise 37 decibels Warp-free, stable, no twisting	Homes, offices, schools, apartments, hospitals, showrooms	Wood veneered on both sides. Different veneers can be specified for either face of panel. Panels available in all woods THICKNESS: 1¾" All sizes up to 48" x 96" or 96" x 48" available on order VENEERS: Can be obtained with faces of birch, oak, walnut, Korina, mahogany, elm and other fine woods

There is a Weldwood Product for every part of the home

Weldwood®

- Concrete forms
- Wall and Roof Sheathing
- Finishing Materials and Adhesives
- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
- Counters, Table Tops and Bars
- Doors
- Sub-flooring
- Bathrooms and Kitchens
- Hardboards

Weldwood®

United States Plywood Corporation

World's Largest Plywood Organization, New York 36, N.Y. and U. S.-Mengel Plywoods Inc. Louisville, Ky.

Distributing units in 60 Principal Cities • Dealers Everywhere

QUICK FACTS FOR BUILDERS

Weldwood QUALITY HARDBOARD for every building need

Top Quality

Each Weldwood Hardboard panel is manufactured by a strict quality controlled method that provides exact uniformity in thickness, size, density and hardness. It's quality you can depend on never to vary. There is no finer hardboard made.

Special Features

Weldwood Hardboards are rugged, all-wood fiber panels with unusual strength and durability—completely free of imperfections. They won't crack, chip, dent or splinter. They are easy to fabricate and finish beautifully.

Immediate Delivery

You get fast, on-schedule delivery of every type of Weldwood Hardboard from your lumber dealer or through any of the conveniently located United States Plywood or U.S.-Mengel Plywoods distributing units in 60 principal cities.

A size and type for every need from ONE reliable source—Weldwood!

WELDWOOD STANDARD HARDBOARD . . . For walls, ceilings and other interior uses. Has a hard, smooth surface on one side. Excellent finishing qualities . . . easily worked.

WELDWOOD TEMPERED HARDBOARD . . . For exterior applications or where hard usage is encountered. Impregnated with special tempering compound for greater strength, abrasion-resistance and moisture-resistance.

WELDWOOD BLACK TEMPERED HARDBOARD . . . This is Weldwood Tempered Hardboard to which a black dye has been added.

WELDWOOD WALLTUF HARDBOARD . . . Recommended for interior applications where the strength and hardness of Standard Hardboard is not required.

WELDWOOD UNDERLAYMENT . . . Ideal hardboard for use as a smooth, flat surface over wood floors or wood sub-floors before laying linoleum, cork tile, rubber tile, asphalt tile or carpeting.

WELDWOOD HARDBOARD EXTERIOR SIDING . . . A special tempered and fabricated hardboard for use as exterior lap siding. Exceptionally strong. Has a hard, grainless surface that holds paint longer.

WELDWOOD DEKATILE . . . Score lines are pressed into one surface of this hardboard to form 4-inch squares. Makes a very distinctive wall paneling for kitchens, bathrooms and washrooms. Has low rate of water absorption.

WELDWOOD TEMPERED DEKALUX . . . For exterior and interior use. Smooth on both sides. Impregnated with tempering compound to increase strength and abrasion-resistance. Will resist moisture.

WELDWOOD DEKALEATHER . . . A tempered hardboard with one side embossed to simulate leather. Rich tone-on-tone effects may be obtained by various finishing methods. For offices, lounges and wherever leather-like finishes are desired.

WELDWOOD PERFOBOARD . . . As a paneling, it is both decorative and functional. Designed to hold or display a variety of items. Permits quick changes without repairs. Holds standard hardware and eliminates nails, screws or tools of any kind.

WELDWOOD HARDPLY . . . great structural strength . . . for cupboard doors, bench tops, available in thicknesses of ½", ⅝" and ¾".

In wide range of sizes from

4′ x 16′ to 4′ x 1′

Exterior Siding from

12″ x 96″ to 24″ x 192″

Dekalux from

5′ x 16′ to 4′ x 1′

Thickness range from

1/10″ x 1/4″

Also ask us about Tekwood®, a valuable low-cost companion product to Weldwood Hardboards especially for applications where bending qualities or prefinished faces are important.

There is a Weldwood Product for every part of the home

Weldwood®

- Concrete forms
- Wall and Roof Sheathing
- Finishing Materials and Adhesives
- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
- Counters, Table Tops and Bars
- Doors
- Sub-flooring
- Bathrooms and Kitchens
- Hardboards

Weldwood®

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World's Largest Plywood Organization, New York 36, N.Y. and U. S.-Mengel Plywoods Inc. Louisville, Ky.

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Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wesco Waterpaints Inc Maple St Matteson Ill
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

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BESSER MFG CO ELM ST ALPENA MICH
O K Mfg Co Minneapolis 1 Minn

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Dart Mfg & Sales Co 1002 S Jason Denver Colo
Ingersoll-Rand Inc 11 Broadway New York 4 NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
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SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co 175 N State Aurora Ill
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Republic Steel Corp Republic Bldg Cleveland 1 Ohio

CONDUIT, ASBESTOS, AIR

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CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO

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American Flexible Conduit Co 31 Scott New Bedford Mass
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NATIONAL ELECTRIC PRODS CORP 2 GATEWAY CENTER PITTSBURGH 22 PA
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind
Spang-Chalfant Div National Supply Co Grant Bldg Pittsburgh Pa
Triangle Conduit & Cable Co New Brunswick NJ
WIREMOLD CO STATION A HARTFORD 10 CONN

CONDUIT, RIGID

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
Austin (M B) Co 1405 Shermer Northbrook Chicago Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Conduit Pipe Prods Co 157 W Fulton Columbus Ohio
Federal Electric Prods Co 40 Paris Newark 5 NJ
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
ORANGEBURG MFG CO 48 THOMAS ORANGEBURG NY
Porter-Hayden Cos 825 Frelinghuysen Av Newark 5 NJ
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Spang-Chalfant Div National Supply Co Grant Bldg Pittsburgh Pa
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Ideal Industries Inc 1335 Park Av Sycamore Ill
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Sherman (H B) Mfg Co 22 Barney Battle Creek Mich
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal
Trumbull Components Dept General Electric Co Plainville Conn

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AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
BUSH MFG CO 179 SOUTH ST WEST HARTFORD 10 CONN
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Fedders-Quigan Corp Lakor & Hancock Trenton NJ
Modine Mfg Co 1300 DeKoven Av Racine Wis
National Radiator Co 223 Central Av Johnstown Pa
Nesbitt (John J) Inc Stateroad Philadelphia 36 Pa
Rempe Co 340 N Sacramento Blvd Chicago Ill
Rittling Corp Rand Bldg Buffalo 3 NY
Rome-Turney Radiator Co Canal St Rome NY
Trane Co 3rd & Cameron La Crosse Wis
Tuttle & Bailey 1706 Corbin Av New Britain Conn
Utica Radiator Corp 2201 Dwyer Av Utica 2 NY
VULCAN RADIATOR CO BOX L STA A HARTFORD CONN
Webster (Warren) & Co 17th & Federal Camden 5 NJ
Young Radiator Co 709 S Marquette Racine Wis

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Alvey-Ferguson Co North & Disney Cincinnati 9 Ohio
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Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill
Bodinson Mfg Co 2403 Bayshore Blvd San Francisco Cal
Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio
Bosworth Mfg Co 6723 Denison Cleveland 2 Ohio
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
Erie Steel Construction Co Giest & N P RR Erie Pa
Fairfield Engineering Co 324 Barnhart Marion Ohio
Godfrey Conveyor Co 1301 Wolf Elkhart Ind
Haiss (George) Mfg Co Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY
Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 (Montgomery County) Pa
Hewitt Rubber Div Hewitt-Robins Inc Central & Kensington Avs Buffalo 5 NY
Howry-Berg Steel & Iron Wks 2949 N Speer Denver 11 Colo
Jeffrey Mfg Co 935 N 4th Columbus 16 Ohio
Kewanee Machinery & Conveyor Co Kewanee Ill
Lamson Corp 303 Lamson Syracuse 1 NY
Link-Belt Co 301 W Pershing Chicago Ill
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
Mathews Conveyor Co 190 Tenth Ellwood City Pa
MULKEY (SAM) CO 1621 LOCUST KANSAS CITY 8 MO
New London Engineering Co 1700 Division New London Wis
Northern Conveyor Co Western Av Janesville Wis
Oliver Corp Farquhar (A B) Div 142 N Duke York Pa
Power-Pack Conveyors Cleveland 10 Ohio
Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich
Standard Conveyor Co 315 NW Second St Paul 9 Minn
Stephens-Adamson Mfg Co 274 Ridgeway Av Aurora Ill
Universal Hoist & Mfg Co Cedar Falls Iowa
Western Foundry Co 2400 SW Water Portland 1 Ore
Willard Concrete Machinery Co Ltd Lynwood Cal

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Bodinson Mfg Co 2403 Bayshore Blvd San Francisco Cal
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Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 32 Ohio
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Cyclone Fence Div American Steel & Wire Co Waukegan 1 Ill
Fairfield Engineering Co 324 Barnhart Marion Ohio
Filer & Stowell Co 147 E Becher Milwaukee 7 Wis
Haiss (George) Mfg Co Inc Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY
Jeffrey Mfg Co 827 N 4th Columbus 16 Ohio
Lamson Corp 303 Lamson Syracuse 1 NY
Link Belt Co 300 W Pershing Rd Chicago Ill
Mathews Conveyor Co 190 Tenth Ellwood City Pa
MULKEY (SAM) CO 1621 LOCUST KANSAS CITY 8 MO
New London Engineering Co 1700 Division New London Wis
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Pettibone Mulliken Corp 4700 W Division Chicago 51 Ill
Stephen-Adamson Mfg Co 274 Ridgeway Av Aurora Ill
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn

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BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Blatt (Frank I) Co Inc Rattlesnake Fla
Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 32 Ohio
Chase Turbine Mfg Co Orange Mass
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
Equipment Engineering Co St Charles Ill
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo
General Conveyor & Mfg Co 3601 Salena St Louis 18 Mo
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
Godfrey Conveyor Co 1301 Wolf Elkhart Ind
Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Montgomery County Pa
Johnson (C S) Co Box 71 Champaign Ill
Lamson Corp 303 Lamson Syracuse 1 NY
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
Logan Co 201 Cabel Louisville 6 Ky
Market Forge Co 35 Garvey Everett 49 Mass
Mar-Rail Conveyor Co 560 York Av Pawtucket RI
Media Machine Wks Inc 620 Park Av Media Pa
Metzger Conveyor Co 413 Douglas NW Grand Rapids 4 Mich
O K Mfg Co Minneapolis 1 Minn
Oliver Corp Farquhar (A B) Div 142 N Duke York Pa
Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich
Renco 4372 W Ogden Chicago 23 Ill
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Standard Conveyor Co 315 NW 2nd N St Paul 9 Minn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa

CONVEYORS, OVERHEAD

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Brady Conveyors Corp 20 W Jackson Blvd Chicago 4 Ill

Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 32 Ohio
Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio
Fairfield Engineering Co 324 Barnhart Marion Ohio
Gifford-Wood Co 1 Hudson Av Hudson NY
Godfrey Conveyor Co 1301 Wolf Elkart Ind
Hewitt Rubber Div Hewitt-Robins Inc Central & Kensington Aves Buffalo 5 NY
Johnson (C S) Co Box 71 Champaign Ill
Lamson Corp 303 Lamson Syracuse 1 NY
Landahl Conveyor Co Box 1085 Columbus 16 Ohio
Link-Belt Co 301 W Pershing Rd Chicago Ill
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
Louden Machinery Co 261 Court Fairfield Iowa
Mathews Conveyor Co 190 Tenth Ellwood City Pa
Ney Mfg Co 948 High Av SW Canton 4 Ohio
Northern Conveyor Co Western Av Janesville Wis
Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Starline Inc 300 W Front Harvard Ill
Western Foundry Co 2400 SW Water Av Portland 1 Ore
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

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Atlas Conveyor Co First & 15th Clintonville Wis
Barber-Greene Co 400 N Highland Aurora Ill
Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill
Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio
Bosworth Mfg Co Mills Rd Avon Ohio
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 32 Ohio
Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
Fairfield Engineering Co 324 Barnhart Marion Ohio
Ferguson (Harry J) Co 141 West Av Jenkintown Pa
Godfrey Conveyor Co 1301 Wolf Elkhart Ind
Haiss (George) Mfg Co Inc Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY
Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 (Montgomery County) Pa
Hewitt Rubber Div Hewitt-Robbins Inc Central & Kensington Aves Buffalo 5 NY
Howry-Berg Steel & Iron Wks 2949 N Speer Denver 11 Colo
Kewanee Machinery & Conveyor Co Kewanee Ill
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Lake Shore Engineering Co E Magnetic St Iron Mountain Mich
Lamson Corp 303 Lamson Syracuse 1 NY
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
Mar-Rail Conveyor Co 560 York Av Pawtucket RI
Mathews Conveyor Co 190 Tenth Ellwood City Pa
Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich
MULKEY (SAM) CO 1621 LOCUST KANSAS CITY 8 MO
New London Engineering Co 1700 Division New London Wis
Noble Co 1860 7th Oakland 20 Cal
Northern Conveyor Co Western Av Janesville Wis
Oliver Corp Farquhar (A B) Div 142 N Duke York Pa
Power-Pack Conveyors Cleveland 10 Ohio
Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich
Red Cap Co Div Harrison-Sanders Inc 15 Maple Av Paoli Pa
St Paul Foundry Mfg Co 500 Como Av St Paul 3 Minn
Standard Conveyor Co 315 NW Second N St Paul 9 Minn
Universal Hoist & Mfg Co Cedar Falls Iowa
Western Foundry Co 2400 SW Water Portland 1 Ore
Willard Concrete Machinery Co Ltd Lynwood Cal

COOLERS, WATER, ELECTRIC

Brunner Mfg Co 1821 Broad Utica 1 NY
Dearborn Stove Co 1700 W Commerce Dallas Tex
Ebco Mfg Co 401 W Town Columbus 8 Ohio
Frick Co 320 Broadway Waynesboro Pa
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
Haws Drinking Faucet Co Fourth & Page Berkeley 10 Cal
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
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Sunroe Co Glen Riddle Pa
Taco Heaters Inc 137 South Providence RI
Taylor (Halsey W) Co 1259 N Park Av Warren Ohio
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
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WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Westinghouse Electric Corp 653 Page Blvd Springfield 2 Mass

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Gichner Inc 1900 Kendall NE Washington 2 DC
Rigidized Metals Corp 687 Ohio Buffalo 3 NY

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Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind
SAMSON CORDAGE WKS 89 BROAD BOSTON 10 MASS
Silver Lake Co 60 Batterymarch Boston 10 Mass

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GENERAL ELECTRIC CO CONTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind

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BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Edwards Mfg Co Fifth & Butler Cincinnati 2 Ohio
Meyer (F) & Bro Co Peoria Ill
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO

CORNERS, SIDING

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BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Bugher Mfg Co 211 S Main Kokomo Ind
Capilano Timber Co Ltd Box 608 Vancouver BC Canada
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Edwards Mfg Co 427 Culvert Cincinnati 2 Ohio
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Harris Inc 200 E Long Columbus Ohio
INLAND STEEL PRODS CO 4105 W BURNHAM MILWAUKEE 1 Wis
Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Meldrum Mfg & Engineering Co 473 N Cleveland Av St Paul 4 Minn
Merwin Mfg Co 19th & German Erie Pa
Northwest Metal Prods Inc 55 Spokane Seattle Wash
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
REYNOLDS METALS CO BLDG PRODS DIV 2001 NINTH LOUISVILLE 1 KY
ST PAUL CORRUGATING CO 3 W WATER ST PAUL 1 MINN
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wells Specialty Co North Liberty Ind
Wheeling Corrugating Co Wheeling W Va

COUNTER DISPLAY CABINETS

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Curtis Cos Inc American Plywood Div New London Wis
Engineers Plywood Prods Co Box 1326 Tacoma Wash
Equipto Div Aurora Equipment Co Aurora Ill
Grammes (L F) & Sons Inc 380 Union Allentown Pa
Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Precision Equipment Co 3714 N Milwaukee Av Chicago 41 Ill
Reflector Hdwe Corp 2245 S Western Av Chicago Ill
Rustic Furniture Co Inc Williamstown NJ
Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio
Stackbin Corp 1079 Main Pawtucket RI
Universal Steel Equipment Corp 32-35 47th Av New York 1 NY
Warren (J D) Mfg Co Montpelier Ohio

COVE, MOLDED PLYWOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Keller Prods Inc 41 Union Manchester NH
Plytex Corp 1731 Elston Av Chicago 22 Ill
Pyramid Mouldings Inc 5353 W Armstrong Chicago 30 Ill
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

COVERING, FABRIC WALL

Columbus Coated Fabrics Corp Seventh & Grant Aves Columbus 16 Ohio
Standard Coated Prods Inc 67 W 44th New York 36 NY
WIGGIN'S (H B) SONS CO 56 ARCH BLOOMFIELD NJ

COVERING, PIPE, ASBESTOS

Acme Asbestos Covering & Flooring Co 240 N Elizabeth Chicago 7 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
CAREY (PHILIP) CO 316 S WAYNE CINCINNATI 15 OHIO
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Ehret Magnesia Mfg Co Crawford & County Line Rd Valley Forge Pa
Grant (Wilson) Inc 141 W Jackson Blvd Chicago Ill
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Pabco Prods Inc 425 Brannan San Francisco 19 Cal
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Sall Mountain Co Box 777 Hamilton Ohio
Smith & Kanzler Inc E Linden Av Linden NJ
Standard Asbestos Mfg Co 860 Evergreen Av Chicago 22 Ill

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Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
DANIELS (C R) INC 4900 BLOCK WETHERDSVILLE RD HILLSDALE BALTIMORE 16 MD
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

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OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO
Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill

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Dennis Chemical Co 2701 Papin St Louis Mo
Evercrete Corp 424 W 42nd New York 36 NY

Gits Molding Corp 4600 W Huron Chicago 44 Ill
Holloway-head (R M) Corp 540 Cooper Camden 2 NJ
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

COVERINGS, RESILIENT WALL

Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa

COVERINGS, WALL, WOOD-ON-CLOTH

UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

COVERINGS, VINYL PLASTIC, FLOOR

Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex
Camp Co Inc 6958 S State Chicago 21 Ill
GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON 16 OHIO
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Sandura Co Inc Architects Bldg 17th & Sansom Philadelphia 3 Pa
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

COVERS, BATHTUB

Protectub Inc 71 Ludlow New York 2 NY

COVERS, MANHOLE & CISTERN

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Logan Co 201 Cabel Louisville 6 Ky
Western Foundry Co 2400 SW Water Av Portland 1 Ore

CRANES, CRAWLER & TRUCK MOUNTED

Bay City Shovels Inc 2611 Center Bay City Mich
BUCYRUS ERIE CO S MILWAUKEE WIS
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Kwik-Mix Co Port Washington Wis
Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa
Northwest Engineering Co 135 S LaSalle Chicago 3 Ill
Schield Bantam Co 221 Park Waverly Iowa
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

CRANES, OVERHEAD TRAVELING

American Bridge Div U S Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
Chicago Tramrail Co 4000 W Washington Blvd Chicago Ill
Chisholm Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Conco Building Prods Inc Box 111 Mendota Ill
Detroit Hoist & Machine Co 8207 Morrow Detroit 11 Mich
Downs Crane & Hoist Co 540 W Vernon Av Los Angeles 37 Cal
Electro Lift Inc 30 Church New York 7 NY
Erie Steel Construction Co Giest & N P RR Erie Pa
HARNISCHFEGER CORP 4400 W NATION AV MILWAUKEE 46 WIS
Lane Mfg Co Montpelier Vt
Louden Machinery Co 1120 Broadway Fairfield Iowa
Reading Crane & Hoist Corp 2100 Adams Reading Pa
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
Shepard Niles Crane & Hoist Co 410 Schuyler Av Montour Falls NY
Whiting Corp 16516 Lathrop Av Harvey Ill
Wright Hoist Div American Chain & Cable Co York Pa

CRANES, POWER INDUSTRIAL

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn
Elwell-Parker Electric Co 4156 St Clair Av Cleveland 3 Ohio
HARNISCHFEGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS
Hyster Co 2979 NE Clackamas Portland 8 Ore
Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Lewis-Shepard Prods Inc 125 Walnut Watertown 72 Mass
Market Forge Co 35 Garvey Everett 49 Mass
Northwest Engineering Co 135 S LaSalle Chicago Ill
Ross Carrier Co 331 Miller Harbor Benton Harbor Mich
Shepard Niles Crane & Hoist Corp 410 Schuyler Av Montour Falls NY
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY

CRANES, TRACTOR & TRUCK

American Hoist & Derrick Co 635 Robert St Paul 4 Minn
Bay City Shovels Inc 2611 Center Bay City Mich
Bradney Machine Co Middletown NY
BUCYRUS ERIE CO SOUTH MILWAUKEE WIS
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn
HARNISCHFEGER CORP 4400 W NATION AV MILWAUKEE 46 WIS
Hough (Frank G) Co 811 Sunnyside Av Libertyville Ill
Hyster Co 2979 NE Clackamas Portland 8 Ore
Koehring Co 3026 W Concordia Av Milwaukee 61 Wis
Link-Belt Speeder Corp 2101 Sixth SW Cedar Rapids Iowa
Market Forge Co 35 Garvey Everett 49 Mass
Northwest Engineering Co 135 S LaSalle Chicago Ill
OLIVER CORP 400 W MADISON CHICAGO 6 ILL
Osgood-General Cheney Av Marion Ohio
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport 1 Conn
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY
Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY
Taylor Machine Wks Louisville Miss

CRANES & SHOVELS, POWERED

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
American Hoist & Derrick Co 635 Robert St Paul 4 Minn
Bay City Shovels Inc 2611 Center Bay City Mich
BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS
Charles Machine Wks Perry Okla
Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio
Coles Cranes Box 942 Joliet Ill
Day-Smith Hydraulic Corp Camp Hill Pa
Hughes-Keenan Co 648 Newman Mansfield Ohio
Hydrocrane Div Bucyrus-Erie Co Milwaukee 4 Wis
Hyster Co 2979 NE Clackamas Portland 8 Ore
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Kwik-Mix Co Port Washington Wis
Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa
Marion Power Shovel Co 617 W Center Marion Ohio
Michigan Power Shovel Co Benton Harbor Mich
Milwaukee Power Equipment Co 1111 W Bruce Milwaukee 4 Wis
Northwest Engineering Co 135 S LaSalle Chicago 3 Ill
Orton Crane & Shovel Co 609 S Dearborn Chicago 5 Ill
Osgood-General Cheney Av Marion Ohio
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
Ross Carrier Co 331 Miller Harbor Benton Harbor Mich
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY
Thew Shovel Co 1374 E 28th Lorain Ohio
Unit Crane & Shovel Corp 6411 W Burnham Milwaukee 14 Wis

CREOSOTE

American Creosote Wks Inc 1307 Dublin New Orleans La
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
C-A Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass
Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee 3 Wis
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Inland Steel Co 38 S Dearborn Chicago 3 Ill
Koppers Co Koppers Bldg Pittsburgh Pa
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind

CRESTING & FINIALS, ROOF, SHEET METAL

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CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Wheeling Corrugating Co Wheeling W VA

CRIBBING, WIRE

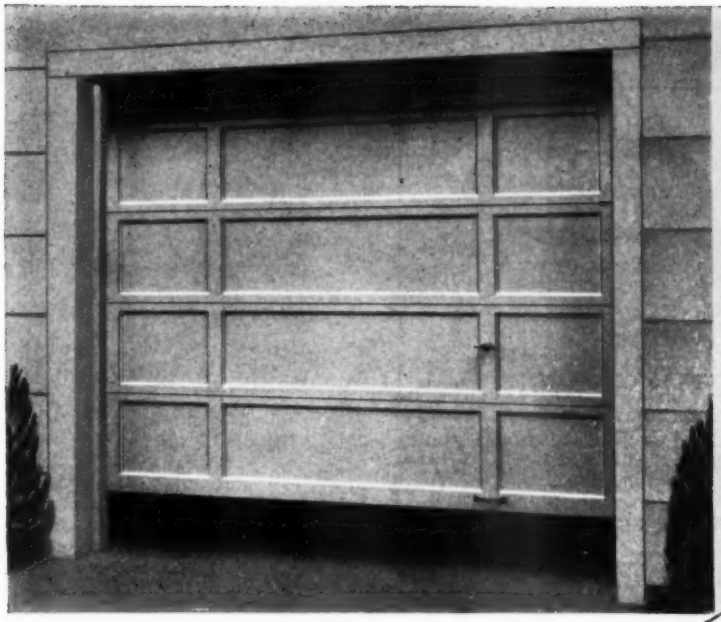
AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
Continental Steel Corp 1109 S Main Kokomo Ind
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Logan Co 201 Cabel Louisville 6 Ky
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill

CRIBS, CORN, PORTABLE

AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Beatrice Steel Tank Mfg Co Beatrice Neb
Butler Mfg Co 13th & Eastern Av Kansas City 3 Mo
Capitol Fence Co 735 N Water Milwaukee 2 Wis
Gaynor (E S) Lumber Co Sioux City Iowa
Illinois Wire & Mfg Co Box 1396 Joliet Ill
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mattsen Wire & Mfg Co Inc Market St Joliet Ill
Midwest Steel Prods Co Kansas City Mo
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Neb
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
RILCO LAMINATED PRODS INC FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
ROWE MFG CO 614 W THIRD GALESBURG Ill
Security Fence & Mfg Co 8701 N 30th Omaha 12 Neb
Super Structures Inc 1015 S Jefferson Albert Lea Minn
Wheeler-Arnold Co Wittenberg Wis

CRIBS, GRAIN, STEEL

Agrifirst Chemical Corp Lincoln Neb
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Kozy Mfg Co Exira Iowa
Lamneck Prods Inc Middletown Ohio
Martin Steel Prods Corp 111 W Longview Mansfield Ohio
Ross Equipment Co Springfield Ohio
Siebring Mfg Co Peven St George Iowa



NEW!

FRANTZ NO. 450 FIVE-SECTION OVERHEAD-TYPE GARAGE DOOR

with Frantz' famous easy operating features

The No. 450, above, is for 8' x 7' openings. Also available are the No. 459 for 9' x 7' and the No. 466 for 16' x 7' openings. The Chrome handle can be fitted at either side.

BEAUTIFUL TO SEE

"Beautiful" to Install

PRICED RIGHT for your BUILDING BUDGET

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Effortless Operation—easy opening and closing—is the *key* to Frantz' tremendous popularity. The new No. 450, with improved Chrome handle, is the latest example. It has most of Frantz' famous fourteen features. All parts, except springs, are either zinc plated or made of galvanized steel. Only 12½" headroom is required. Offset Joints seal out weather. Tapered Track has full 16" radius curve. An exclusive safety-catch prevents rebound. Automatic double-action latches assure weather tight closing.

Over 25 other designs give you what is probably the largest variety of styles and sizes of rigid and sectional Overhead Doors and Door Hardware to be obtained anywhere from a single source. Write for catalogs No. 302 and 107. Visit your Frantz dealer today and see for yourself!

"Your BEST Door For '54"

FRANTZ

GARAGE DOORS AND HARDWARE

FRANTZ MANUFACTURING CO.

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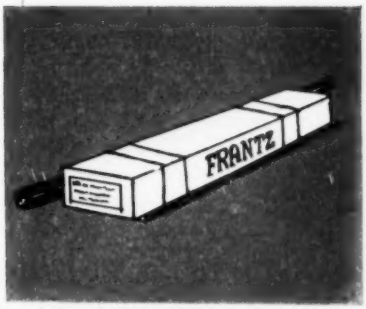
The No. 10, RIGID TYPE—Popular one-piece door with self-opening "Powermatic" Action. Needs only 2" headroom. Single and double.

The No. 500 SERIES—"Last word" in overhead sectional garage doors. Has "Glide-O-Matic" Action. 6" Headroom. Available 3 sizes.



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Cairing Tool Co 21221 Hoover Rd Detroit 32 Mich
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Heller (W C) & Co 1050 Bryant Montpelier Ohio
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RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Ridgely Trimmer Co Springfield Ohio
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Kimball Mfg Co 1633 Sycamore Royal Oak Mich
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UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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Boice Crane Co 930 W Central Av Toledo 6 Ohio
Dependable Machine Co Box 1235 Sedgefield Greensboro NC
Ekstrom Carlson & Co 1417 Railroad Av Rockford Ill
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio
Markwell Mfg Co 200 Hudson New York 13 NY
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill
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FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 61 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Parsons Bros Slate Co Pen Argyl Pa
PEARSON (O) MFG CO BOX 255 LAKE VILLA ILL
POOTATUCK CORP 50 SAMMIS PL STRATFORD CONN
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
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ASBESTOS SIDING & SHINGLE CUTTER

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Dresden Mfg Co 2375 Walnut Av Long Beach 6 Cal
Fletcher Terry Co 437 South Forestville Conn
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa
J M J Industries Inc 226 Centerville Av Belleville Ill
MASTER WOODWORKER MFG CO INC 401-411 E FORT DETROIT 26 MICH
MASTIC TILE CORP OF AMERICA N MONTGOMERY NEWBURGH NY
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Wen Prods Inc 5806 Northwest Hwy Chicago 31 Ill

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Hart & Cooley Mfg Co 500 E 8th Holland Mich
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH

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Alley Steel Prods Inc 2941 East Ten-Mile Rd Hazel Park Mich
Archer Div Stratton & Terstegge Co Inc Box 311—300 Culbertson Av New Albany Ind
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Carter Engineering Co Warrenton Va
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Colonial Fireplace Co 540 N Cicero Chicago 44 Ill
Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Covert (H W) Co 339 E 48th New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Harris Inc 200 E Long Columbus Ohio
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO HALL ST HUNTINGTON IND
Mesker Bros Iron Co 4330 Geraldine St Louis 2 Mo
Peerless Mfg Corp 1400 W Ormsby Louisville Ky
Portland Stove Foundry Co 57 Kennebec Portland Me
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SUPERIOR FIREPLACE CO 1708 E 15TH LOS ANGELES 21 CAL
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Tristop Damper Co Trussville Ala
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CALBAR PAINT & VARNISH CO 2612-26 N MARTHA PHILADELPHIA 25 PA
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Minwax Co Inc 11 W 42nd New York 18 NY
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

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Asbestos Mfg Corp 131 Wabash Michigan City Ind
Adensite Co 37-19 23rd Long Island City NY
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Asbestos Co of Texas Div of Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK NY
CAREY (PHILIP) MFG CO 320 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Cemix Co 433 Maple Av Downers Grove Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Con-Cor Co 4550 Main Kansas City Mo
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Cenrox Sales Inc 1270 Sixth Av New York NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Tenth at 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reardon Co 7501 Page Av St Louis 14 Mo
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 Humboldt Milwaukee 12 Wis
Sullivan Co 212 E Trigg Memphis 2 Tenn
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tech Bros Inc 2600 Richmond Terr Staten Island 3 NY
Truseon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 187 Bausman St Pittsburgh 10 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vita-Var Co 10 Commerce Newark NJ
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Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FOLLANSBEE STEEL CORP 140 STANWIX ST GATEWAY CENTER BLDG 2 PITTSBURGH 22 PA
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Macomber Inc 1925 Tenth Canton Ohio
Mahon (R C) Co Box 4666 Detroit 34 Mich
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Smith & Kanzler Co E Linden Av Linden NJ
Soule Steel Co San Francisco 24 Cal
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

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CELOTEX CORP 120 S LA SALLE ST CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Tectum Corp 105 S Sixth Newark Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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American Hoist & Derrick Co St Paul Minn
Clyde Iron Wks Inc Duluth Minn
Dobbie Foundry & Machine Co 150 Portage Rd Niagara Falls NY
Downs Crane & Hoist Co Los Angeles Cal
Lane Mfg Co Montpellier Vt
Sasgen Derrick Co 3101 W Grand Av Chicago 22 Ill

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Ideal Industries Inc 1335 Park Av Sycamore Ill
Ryerson (Joseph T) & Son Inc 2558 W 16th Chicago Ill
TIMELY PRODS CO BOX 416 BASIL OHIO

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Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
Ideal Industries Inc 1335 Park Av Sycamore Ill
MOSLEY ELECTRONICS INC 8622 ST CHARLES ROCK RD ST LOUIS 14 MO
NATIONAL ELECTRIC PRODS CORP 2 GATEWAY CENTER PITTSBURGH 22 PA
Porcelain Prods Co Inc 422 W Sandusky Findlay Ohio
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal

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Anemostat Corp of America 10 E 39th New York NY
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Connor Engineering Corp Shelter Rock Lane Danbury Conn
Hart & Cooley Mfg Co 500 E 8th Holland Mich
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH
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Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa
Hubbard & Co Pittsburgh Pa
Ka-Mo Tools Inc 1845 S 55th Chicago 23 Ill
Leetonia Tool Co 142 Main Leetonia Ohio
Sterling Foundry Co Box 457 Sterling Ill
True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
Warren Tool Corp Box 791 Warren Ohio
Winpower Mfg Co Newton Iowa
Woodings-Verona Tool Wks Verona Pa
Wood Shovel & Tool Co Piqua Ohio

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Albertson & Co Inc Sioux City 3 Iowa
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Bay State Abrasive Prods Co Union St Westboro Mass
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BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Clover Mfg Co 333 Main Norwalk Conn
Mid-West Abrasive Co 500 W Washington Owosso Mich
Rhodes (James H) & Co 157 W Hubbard Chicago 10 Ill
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Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Cribben & Sexton Co 700 N Sacramento Blvd Chicago 12 Ill
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO
Dishmaid Inc 5900 Euclid Av Cleveland 3 Ohio
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Hobart Mfg Co Troy Ohio
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
Jackson Prods Co 3703 E 93rd Cleveland Ohio
James Mfg Co Independence Kan
Kimco Industries 12123 Woodbine Detroit Mich
MULLINS MFG CORP YOUNGSTOWN KITCHENS UNIVERSITY N E WARREN OHIO
Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal
Universal Major Elec Appliance Co Box 119 Lima Ohio
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO

DISINFECTANTS

Boyle-Midway Inc 22 E 40th New York 16 NY
Carbolineum Wood Preserving Co Milwaukee Wis
Evercrete Corp 424 W 42nd New York 36 NY
Hollinshead (R M) Corp 840 Cooper Camden 2 NJ
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Oakite Prods Inc 19 Rector New York 6 NY
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia Pa
Puritan Sales Co Atlanta Ga
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Socony-Vacuum Oil Co 26 Broadway New York 4 NY

DOOR BOTTOMS, DRAFT SEAL

Chamberlin Co of America 1254 La Brosse Detroit 26 Mich
Decorite 2116 Peachtree Atlanta Ga
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Lloyd Mfg Co 666 N Lake Shore Chicago Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MASTER METAL STRIP SERVICE CO 1720 N KILBOURN AV CHICAGO 39 ILL
Monarch Metal Weatherstrip Co 6333 Etzel Av St Louis 14 Mo
National Guard Prods 757 Madison Memphis 7 Tenn
National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa
Sentry Stop A Draft Co 20 N Wacker Dr Chicago 6 Ill
Spanjers (A J) Co 1915 Lilac Dr Minneapolis 12 Minn
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Thermal Co 45 W Durham Philadelphia 19 Pa
Waterloo Sales Co Cleveland 19 Ohio

DOOR OPERATORS

AUTH ELECTRIC CO INC 34-20 45TH LONG ISLAND CITY 1 NY
Bayley (William) Co 1200 Warder Springfield 99 Ohio
Bommer Spring Hinge Co Inc Landrum SC
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Croft Steel Prods Inc 10 Market Jamestown NY
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
Hardware Prods Inc 806-12 126th Reading Pa
Harris Inc 200 E Long Columbus Ohio
Independent Lock Co 1950 Claghorn Fitchburg Mass
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
LCN Closers Inc 111 W Railroad Av Princeton Ill
LOCKWOOD HDWE MFG CO 1950 CLEGHORN FITCHBURG MASS

Lockwood

Ball-Bearing Closers

- Leak-proof gland and splash chamber
- Oversize 1-piece Shaft
- Super Powered Spring
- 2-year guarantee

LOCKWOOD HARDWARE MANUFACTURING CO.
Fitchburg, Massachusetts

Newell Mfg Co Lowell Mich
New England Mfg & Supply Corp 42 Church New Haven Conn
Norton Door Closer Co 2900 N Western Av Chicago 18 Ill
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY
RAYNOR MFG CO E RIVER RD DIXON ILL
RICHARDS-WILCOX MFG CO 174 THIRD AURORA ILL
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
SCHLAGE LOCK CO 2201 BAY SHORE BLVD SAN FRANCISCO 19 CALIF
Segal Lock & Hdwe Co Inc 395 Broadway New York 13 NY
Shelby Spring Hinge Co Shelby Ohio
STANLEY WKS 111 ELM NEW BRITAIN CONN
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

DOOR OPERATORS, AUTOMATIC

Autosonic Sales Div Vendo Co 7400 E 12th Kansas City Mo
BARBER-COLMAN CO 120 MILL ROCKFORD ILL
CALDER MFG CO 630 N PRINCE LANCASTER PA
Capitol Prods Co 118 S Third Springfield Ill
Clark Door Co Inc 515 Hunterdon Newark 8 NJ
Federal Industries Inc 19720 W Eight-Mile Rd Detroit 19 Mich
Garrett Mfg Co Compton Plains NJ

General Door Mfg Co 1736 N Second Milwaukee 12 Wis
Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn
Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
McKee Door Co 142 Hermes Aurora Ill
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Quincy Mfg Co Tiffin Ohio
RAYNOR MFG CO DIXON ILL
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Robot Appliances 13165 Prospect Detroit Mich

ROBOT OPERATORS
OPEN-CLOSE-LOCK: DOORS, GATES
...Electronically
COMMERCIAL, INDUSTRIAL
RESIDENTIAL & SPECIAL
Write for Catalog
ROBOT APPLIANCES, INC.
13165 PROSPECT • DEARBORN, MICH.

ROWE MFG CO GALESBURG ILL
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CON
STANLEY WKS 111 ELM NEW BRITAIN CONN
Vendo Co 7400 E 12th Kansas City 3 Mo
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IA
Wilson (J G) Corp Lexington Av New York 17 NY

DOOR OPERATORS, GARAGE

BARBER-COLMAN CO 120 MILL ROCKFORD ILL

BARBER COLMAN
Barcol.
OVERdoors
see full page ad this issue on doors, door operators and contro's

Better-Bilt Door Co 950 Harbor Rd Egg Harbor City NJ
CALDER MFG CO 630 N PRINCE LANCASTER 4 PA
Capital Prods Co 118 Third Springfield Ill
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Crane (H W) Co 15 N 9th Av Maywood Ill
Crawford Door Co 20263 Hoover Rd Detroit 5 Mich
FRANTZ MFG CO 301 W 3RD STERLING ILL
HOWELL MFG CO COTTMAN ST & HASBROUCK AV PHILADELPHIA 1 PA
Kinnear Mfg Co 1191 Fields Av Columbus Ohio
McKee Door Co 110 Hankes Aurora Ill
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
RAYNOR MFG CO E RIVER RD DIXON ILL
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Robot Appliances Inc 13165 Prospect Av Detroit Mich
ROWE MFG CO 614 W THIRD GALESBURG ILL
STANLEY WKS 111 ELM NEW BRITAIN CONN
Sterling Electronic Door Control Corp 323 W 2nd Rock Falls Ill
Vendo Co 7400 E 12th Kansas City 3 Mo
Wagner Mfg Co Cedar Falls Iowa

DOOR SPRINGS

AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bommer Spring Hinge Co Inc Landrum SC
Chicago Spring Hinge Co 1500 Carroll Av Chicago 7 Ill
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO STERLING ILL
Hubbard (M D) Spring Co Pontiac Mich
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
NATIONAL MFG CO STERLING ILL
Parker (S) Hardware Mfg Corp 27 Ludlow New York 2 NY
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
STANLEY WKS 111 ELM NEW BRITAIN CONN
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Wright Prods Co St Paul Park Minn

DOOR UNITS, WOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Capitol Prods Co 118 S Third Springfield Ill
Ideal Co 24th & Mary Sts Waco Tex
Lutze (Wm R) Co 18 Bergen Brooklyn NY
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
ONE-DER FRAME CORP 1232 N 37TH PL BOX 3068 BIRMINGHAM 3 ALA
Plytex Corp 1731 Elston Av Chicago 22 Ill
READY HUNG DOOR CORP 204 NEIL P ANDERSON BLDG FORT WORTH 2 TEX

DOORS, ACCESS

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods 12911 Hillview Detroit 27 Mich
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
COFFMAN (R G) CO INC 2809 ORANGE AV ORLANDO FLA
Columbia Metal Box Co 260 E 143rd New York 51 NY
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY
Decatur Iron & Steel Co 2nd St W Decatur Ala
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fries & Son Steel Construction & Engineering Co Covington Ky
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla
Huttig Mfg Co Muscatine Iowa
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
MAJESTIC CO INC HUNTINGTON IND
MIAMI CABINET DIV CAREY (PHILIP) MFG CO 1950 GRAND AV MIDDLETOWN OHIO
Morgan Co 520 Oregon Oshkosh Wis
READY HUNG DOOR CORP NEIL P ANDERSON BLDG FORT WORTH 2 TEX
Rock Island Millwork Co Rock Island Ill
Simpson Logging Co White Bldg Seattle 1 Wash
Standard Steel Cabinet Co 3711 N Milwaukee Av Chicago Ill
STEELCRAFT MFG CO 9250 BLUE ASH RD ROSSMOYNE OHIO
United Steel Fabricators Inc Wooster Ohio
Vestal Mfg Co Box 152 Sweetwater Tenn
Weatherguard Svc Inc 564 Jackson Av New York 55 NY
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wheeler Osgood Co 1216 St Paul Tacoma 1 Wash

DOORS, ASH PIT

Adams Co 110 E 4th Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BENNETT-IRELAND CO 23 STATE NORWICH NY
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Covert (H W) Co 339 E 48th New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Harris Inc 200 E Long Columbus 15 Ohio
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
International Steel Co Evansville 7 Ind
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO HALL ST HUNTINGTON IND
Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Vestal Mfg Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wheeling Corrugating Co Wheeling W Va
Wilmington Casting Co 258 Charles Wilmington Ohio

DOORS, CABINET & CUPBOARD, WOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill
Angel Novelty Co Fitchburg Mass
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2657 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Curtis Cos Inc American Plywood Div New London Wis
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl St Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ipik Plywood Corp Kenner La
IXL Furniture Co Goshen Ind
Kinzua Pine Mills Co Kinzua Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan Co 520 Oregon Oshkosh Wis
National Plywoods Inc 2710 Throop Chicago Ill
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
Seneca Lumber & Millwork Co 637-701 W Tiffin Fostoria Ohio
Silcrest Co 100 Thomas Wausau Wis
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Wisconsin Laminating Co Chilton Wis

DOORS, CELLAR, BULKHEAD, METAL

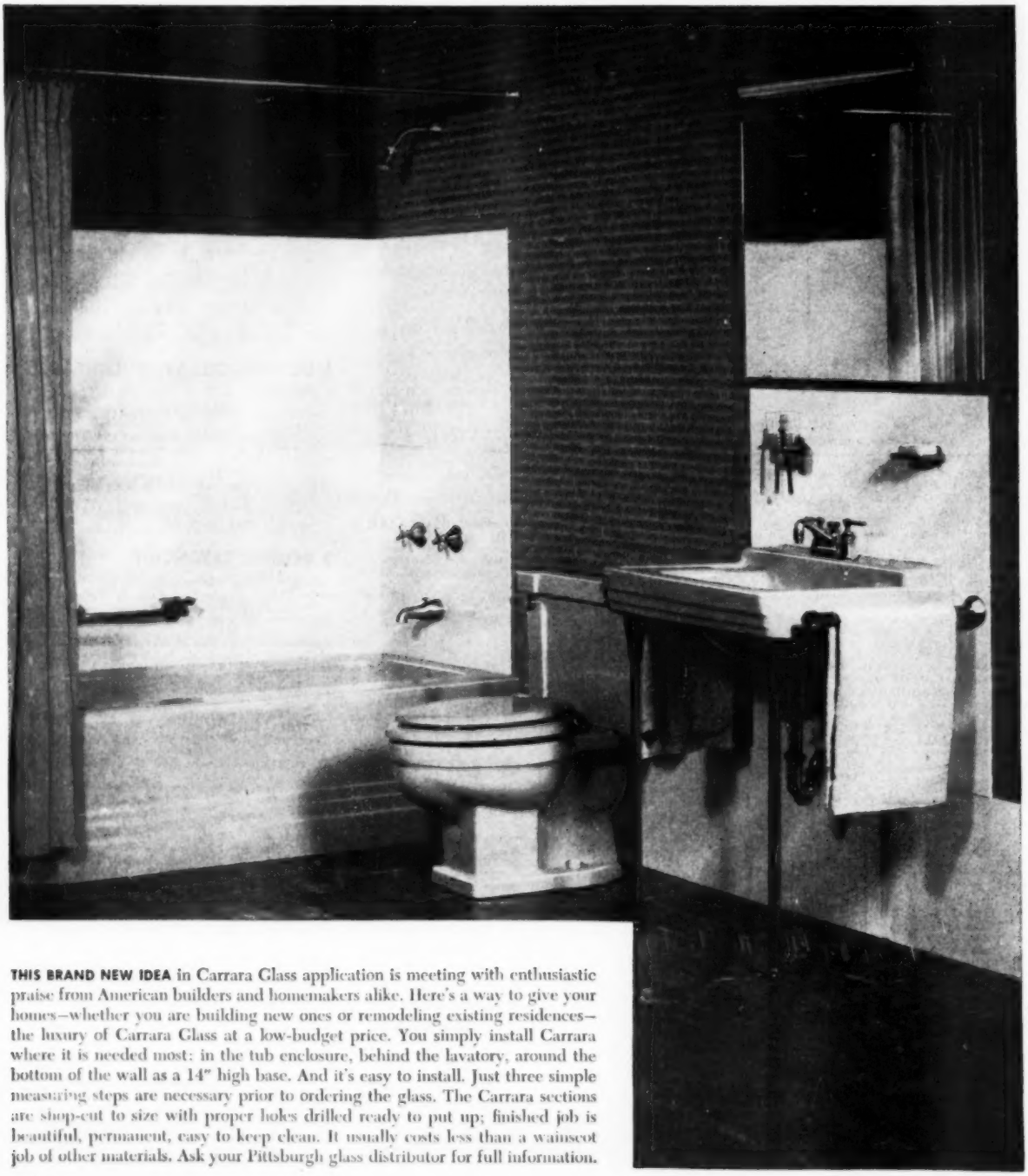
BILCO CO BOX 1203 WEST HAVEN 5 CONN
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Dept AB Cincinnati 23 Ohio
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
International Fireproof Door Co 76 Lexington Av Brooklyn 5 NY

DOORS, CLEANOUT

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind
BENNETT-IRELAND CO 23 STATE NORWICH NY
Builders Brick Co 3800 9th Av S Seattle 8 Wash
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Colonial Fireplace Co 540 N Cicero Av Chicago 44 Ill
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12
Harris Inc 200 E Long Columbus 15 Ohio
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
INLAND STEEL PRODS CO 411 W BURNHAM MILWAUKEE 1 WIS
International Steel Co Evansville 7 Ind
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO HALL ST HUNTINGTON IND
Mesker Bros 4330 Geraldine St Louis 2 Mo
Metal Crafters E Av at 18th St NE Cedar Rapids Iowa
Price Fireplace Heater & Tank Corp 195 W Austin Buffalo 7 NY
Sterling Foundry Co Box 457 Sterling Ill
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
US Hdwe & Mfg Co Pawtucket RI
Vestal Mfg Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wheeling Corrugating Co Wheeling W Va

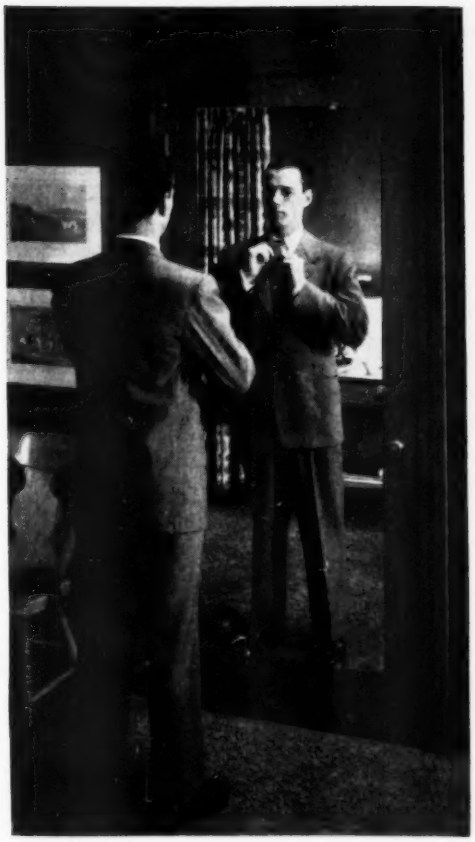
To sell *more* homes with *less* effort

...use plenty of Pittsburgh

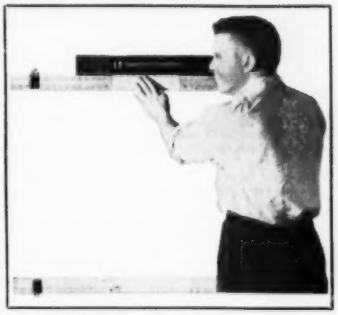


THIS BRAND NEW IDEA in Carrara Glass application is meeting with enthusiastic praise from American builders and homemakers alike. Here's a way to give your homes—whether you are building new ones or remodeling existing residences—the luxury of Carrara Glass at a low-budget price. You simply install Carrara where it is needed most: in the tub enclosure, behind the lavatory, around the bottom of the wall as a 14" high base. And it's easy to install. Just three simple measuring steps are necessary prior to ordering the glass. The Carrara sections are shop-cut to size with proper holes drilled ready to put up; finished job is beautiful, permanent, easy to keep clean. It usually costs less than a wainscot job of other materials. Ask your Pittsburgh glass distributor for full information.

Glass



A WALL MIRROR, like this one in the dining room — or the living room, bedroom, entrance hall — adds a touch of elegance to any home. It helps to impress home buyers with the exceptional value you are offering; aids in bringing in a lot of plus-business. And the new Pittsburgh structural mirror brackets make installing a really simple matter. These brackets accommodate mirrors from 28" to 80". They take care of any irregularities in the wall.



PITTSBURGH FULL-LENGTH DOOR MIRRORS are a must in every home. People demand them. That's why it's wise for you to include several in every home you build or renovate. It takes just a few minutes to install them. They're really full-length (68" high) and they come in five different widths—16, 18, 20, 22, and 24 inches—to fit more than 90% of all interior millwork doors. You'll be surprised at how much value they will add to your homes—and they're inexpensive.

Every nickel you spend on glass shows. And the results far outweigh the cost.

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Pittsburgh Glass

See Sweet's Builders Catalog for detailed information on Pittsburgh Plate Glass Company products.

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PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

DOORS, COAL CHUTE

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Dept AB Cincinnati 23 Ohio
Decatur Iron & Steel Co 2nd St W Decatur Ala
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO HALL ST HUNTINGTON IND
Mesker Bros 4330 Geraldine St Louis 2 Mo
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky
Wheeling Corrugating Co Wheeling W Va

DOORS, COMBINATION, ALUMINUM

Allied Metal Inc 14 Hamilton New London Conn
Alsco Inc 260 S Forge Akron Ohio
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS
Barnhart (A W) Co 140 Highland Port Chester NY
CECO STEEL PRODS CORP 5601 W 26TH CICERO 50 ILL
Chamberlin Co of America 1254 La Brosse Detroit 26 Mich
Compo-Miracle Prods Co 15221 W Eleven-Mile Rd Berkley Mich
Eagle Picher Co American Bldg Cincinnati 1 Ohio
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich
Firecraft Corp 3110 W 51st Chicago Ill
Harris Inc 200 E Long Columbus Ohio
Hess Mfg Co Quincy Pa
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY
Kaufmann Corp 17210 Gable Detroit Mich
Kota Prods Inc County Rd Rocky Point LI NY
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL ALUMINUM CO 1135 ALUM CREEK DR COLUMBUS 9 OHIO
Orange Div Eagle Picher Co American Bldg Cincinnati Ohio
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Russell (F C) Co 1100 Chester Av Cleveland 1 Ohio
Universal Fabricators 1785-1829 Boone Av New York 60 NY
V-Seal Corp 1300 Batavia Rd Royal Oak Mich
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md
Wisco Aluminum Corp 3945 A St Detroit Mich

DOORS, COMBINATION, STEEL

CHALLENGER PRODS INC 2601 PENN AV PITTSBURGH 22 PA
Chamberlin Co of America 1254 La Brosse Detroit 26 Mich
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Compo-Miracle Prods Co 15221 W Eleven-Mile Rd Berkley Mich
McKindley (Orman O) Co 4530 N Keystone Av Box 5341 Indianapolis 5 Ind
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND OHIO

DOORS, COMBINATION, WOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Angel Novelty Co 540 Broad Fitchburg Mass
Anson & Gilkey Co Logan Av & Sales Merrill Wis
Bond-Howell Lumber Co 515 E Ninth Jacksonville Fla
Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Cole Mfg Co Box 2657 Memphis 2 Tenn
Combination Door Co Fond du Lac Wis
Continental Screen Co 1323 Book Bldg Detroit 26 Mich
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich
GEORGIA-PACIFIC PLYWOOD CO ACME DOOR DIV QUEEN & LINCOLN HOQUIAM WASH
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON, INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Ideal Co 24th & Mary Waco Tex
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
M & M Woodworking Co Kenton Sta Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Morgan Co 520 Oregon Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
National Screen Co Inc Madison Av Ext Suffolk Va
National Screen Door Co Box 1887 Montgomery 3 Ala
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phenix Mfg Co 4127 N Port Washington Rd Milwaukee 12 Wis
Prentice (F W) & Co 430 N Dean Adrian Mich
Quigley (J R) Co Gloucester City NJ
Roach & Musser Co Muscatine Iowa
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
Roberson (A) & Sons Inc Box 111 Binghamton NY
Rock Island Millwork Co Rock Island Ill
Schumacher (F E) Co 200 Mill Hartville Ohio
Segelke & Kohlhaus Co 600 S 2nd La Crosse Wis
Silcrest Co 100 Thomas Wausau Wis
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
Window Conditioning Co 32 Brown Barberton Ohio

DOORS, FIR

Aetna Plywood & Veneer Co 1752 N Elston Chicago 22 Ill
Angel Novelty Co 340 Broad Fitchburg Mass
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
Cruver Door Co 308 Security Bldg Box 1102 Tacoma Wash
Diamond Match Co Chico Cal
FIR DOOR INSTITUTE TACOMA WASH
GENERAL PLYWOOD CORP 3131 W MARKET LOUISVILLE KY
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
GREGG & SON 21-31 BLANDIN AV FRAMINGHAM MASS
Long-Bell Lumber Co 926 Grand Kansas City 6 Mo
M & M Woodworking Co Kenton Sta Portland 3 Ore
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Monarch Door & Mfg Co Tacoma Wash
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Northwest Door Co Box 1477 Tacoma 1 Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
Robinson Plywood & Timber Co Box 904 Everett Wash
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Simpson Logging Co White Bldg Seattle 1 Wash
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Washington Door Co Tacoma Wash
Western Door & Plywood Corp 900 SW Second Av Portland 4 Ore
Woodward Lumber Co Vance Bldg Seattle 1 Wash

DOORS, FIRE

AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
AMERICAN WELDING & MFG CO DIETZ RD WARREN OHIO
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Diebold Inc 818 Mulberry Rd SE Canton 2 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo
Harris Preble Fire Doors Inc 4608 W 26th Cicero 50 Ill
International Fireproof Door Co 76 Lexington Av Brooklyn 5 NY
International Steel Co 1321 Edgar Evansville 7 Ind
Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
Mesker Bros 4330 Geraldine St Louis 2 Mo
National Kalemein Co Inc 420 Lexington Av Brooklyn 21 NY
RICHARDS-WILCOX CO 220 THIRD AURORA ILL
Richmond Fireproof Door Co Box 334 Richmond Ind
RODDIS PLYWOOD CORP MARSHFIELD WIS
St Louis Fire Door Co 400 Withers Av St Louis 7 Mo
Syracuse Fire Door Corp 900 Canal Syracuse 3 NY
Tristop Damper Co 645 W 42nd Seattle Wash
Tristop Damper Co Trussville Ala
UNITED STEEL FABRICATORS INC HIGH & GASCHE WOOSTER OHIO
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Virginia Metal Prods Inc Dept A-44 Orange Va
Wagner Iron Wks 1905 S First Milwaukee 1 Wis
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Willis Steel Corp Box 149 Galesburg Ill
Wilson (J G) Corp 372 Lexington Av New York 17 NY

DOORS, FLEXIBLE & FOLDING

AMERICAN BAMBOO CORP 171-04 JAMAICA AV JAMAICA 32 NY
Closures Inc 533 E Forest Av Detroit 1 Mich
CONSOLIDATED VENETIAN BLIND CO DIV CONSOLIDATED GENERAL PRODS INC 2401 NICHOLSON BOX 7425 HOUSTON 8 TEX
Curtition Co 2227 Sawtelle Blvd West Los Angeles Cal
DeJong Inc 34-23 36th Long Island City 1 NY
Holcomb & Hoke Mfg Co Inc 1545 Van Buren Indianapolis 7 Ind
HOUGH SHADE CORP 1203 S JACKSON JANESVILLE WIS
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
NEW CASTLE PRODS CO NEW CASTLE IND
Nova Sales Co Trenton 3 NJ
Orchard Bros Inc 63 Meadow Rd Rutherford NJ
RICHARDS-WILCOX CO 220 THIRD AURORA ILL
ROLSCREEN CO PELLA IOWA
Spokane Sash & Door Co Spokane Wash
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Warren Shade Co Inc 2907 E Hennepin Av Minneapolis 13 Minn
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich

DOORS, FLUSH, WOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill
Angel Novelty Co 340 Broad Fitchburg Mass
Anson & Gilkey Co Logan Av & Sales Merrill Wis
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Braund (W R) Co Wabeek Bldg Birmingham Mich
Carnahan Mfg Co Longootee Ind
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Craftwood Prods 94 Stevenson Belleville NJ
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Curtis Cos Inc American Plywood Div New London Wis
Davis Plywood Corp 12555 Berea Rd Cleveland 1 Ohio

Elliott Bay Mill Co 600 W Spokane Seattle Wash
Farley & Loetscher Mfg Co Dubuque Iowa
Future Prods Inc Box 66 Sta A St Petersburg Fla
GENERAL PLYWOOD CORP 3131 W MARKET LOUISVILLE 2 KY
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Goshen Sash & Door Co E Purl St Goshen Ind
GREGG & SON 21-31 BLANDIN AV FRAMINGHAM MASS
Hardwood Prods Corp 164 Lake Neenah Wis
HASKELITE MFG CORP 701 ANN NW GRAND RAPIDS 2 MICH
HIGGINS INC BOX 8001 NEW ORLEANS LA
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Hyde-Murphy Co Ridgway Pa
Ipik Plywood Corp Kenner La
Kennedy (J G) Lumber Co 4414 White Henry Stuart Bldg Seattle 1 Wash
Kochton Plywood & Veneer Co 509 W Roosevelt Rd Chicago 7 Ill
Letraco Building Prods 8 Broadway New York 4 NY
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Lutze (Wm R) Co 18 Bergen Brooklyn NY
M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore
M & S Inc 15 E Third Cincinnati 2 Ohio
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Marquart Millwork Co 50 Ceape Oshkosh Wis
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Michigan Door Co 330 Franklin SW Grand Rapids Mich
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Mohawk Flush Doors Inc 3383 Hammond Av Elkhart Ind
Morgan Co Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
National Plywoods Inc 2710 Throop Chicago Ill
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Forest Sales Corp 1103 N Riverside Medford Ore
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
PAINE LUMBER CO LTD 73 W ALGONA OSHKOSH WIS
Pettersen (J C) Co 3167 W Mission Rd Alhambra Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood & Door Sales Corp End of 9th Cleveland 14 Ohio
Quigley (J R) Co Gloucester City NJ
Robinson Plywood & Timber Co Box 904 Everett Wash
Rock Island Millwork Co Rock Island Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
Segelke & Koblhaus Co 600 S 2nd LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
Simpson Logging Co White Bldg Seattle 1 Wash
THOMASON PLYWOOD CORP BOX 352 FAYETTEVILLE NC
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Walled Lake Door Co Walled Lake Mich
Weisberg-Baer Co 405-26th Av Long Island City 2 NY
Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich
Young Wood Prods Co Novi Mich

DOORS, GARAGE, METAL

BARBER-COLMAN CO 120 MILL ROCKFORD ILL
Burt Mfg Co 44 E South Akron 11 Ohio
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FRANTZ MFG CO 301 W 3RD STERLING ILL
Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich
Holister Coil Springs Mfg Co Avalon near Florence Av Los Angeles Cal
International Steel Co 1321 Edgar Evansville 7 Ind
Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
STEEL DOOR CORP 359 S JESSIE PONTIAC MICH

Stoddard Mfg Co 617 Fourth SW Mason City Iowa

AUTOGLIDE

Galvanneal Steel Garage Doors—with "touch control" automatic opening—at popular prices. All residential and commercial sizes—dependable, rugged, lifetime construction—smoother, quieter operation—easy to install. New low priced electric opener—optional.

STODDARD MFG. CO.
Mason City Iowa

Taylor (L S) Mfg Co 1091 Zonolite Rd NE Atlanta Ga
Taylor Made Garage Doors 12430 Evergreen Rd Detroit 28 Mich
TILT-A-DOOR CORP 3800 E OUTER DR DETROIT MICH
UNITED STEEL FABRICATORS INC 333 GASCHE WOOSTER OHIO
Wilson Foundry & Machine Co Pontiac 11 Mich

DOORS, GARAGE, WOOD

Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BARBER-COLMAN CO 120 MILL ROCKFORD ILL

BARBER COLMAN
Barcol
OVERdoors
see full page ad this issue on doors, door operators and controls

Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CALDER MFG CO 631 N PRINCE LANCASTER 3 PA
Capitol Prods Co 118 S Third Springfield Ill
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Commander Door Inc Maple Av & B&O RR Holmes Pa
CRAWFORD DOOR CO 20263 HOOVER RD DETROIT 5 MICH
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
FRANTZ MFG CO 301 W 3RD STERLING ILL
General Door Mfg Co 1718 N First Milwaukee 12 Wis
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Goshen Sash & Door Co East Purl Goshen Ind
Hall Enterprises Casco Wis
Hurd Millwork Corp Medford Wis
Ideal Co 24th & Mary Waco Tex
Kaiser Metal Prods Co Bristol Pa
Kinnear Mfg Co Fields Av Columbus 16 Ohio
LONG BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Louden Machinery Co 1120 Broadway Fairfield Iowa
M & M Woodworking Co Kenton Sta Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
McKee Door Co 110 Hankes Aurora Ill
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Northwest Door Co Box 1477 Tacoma 1 Wash
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
RAYNOR MFG CO DIXON ILL
RICHARDS-WILCOX CO 220 THIRD AURORA ILL
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
Segelke & Koblhaus Co 600 S 2nd LaCrosse Wis
SHEFFIELD DOORS INC ROCKFORD ILL
Silcrest Co 100 Thomas Wausau Wis
Simpson Logging Co White Bldg Seattle 1 Wash
STANKEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc Harvard Ill
Sterling Electronic Door Control Corp 323 W 2nd Rock Falls Ill

DOORS, GARAGE, UPWARD ACTING, METAL

BARBER-COLMAN CO 120 MILL ROCKFORD ILL
Burt Mfg Co 44 E South Akron 11 Ohio
Clark Door Co Inc 515 Hunterdon Newark 8 NJ
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FRANTZ MFG CO 301 W 3RD STERLING ILL
K-D Garage Door Sales 19830 Fitzpatrick Detroit 28 Mich
Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich
Goshen Sash & Door Co E Purl Goshen Ind
Kinnear Mfg Co 7th & Fields Av Columbus 16 Ohio
Monarch Door Co Folsom Pa
MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
STEEL DOOR CORP 359 S JESSIE PONTIAC MICH
TAYLOR (L S) Mfg Co 1091 Zonolite Rd NE Atlanta Ga
Wilson (J G) Corp 372 Lexington Av New York 17 NY

DOORS, GARAGE, UPWARD ACTING, WOOD

BARBER-COLMAN CO 120 MILL ROCKFORD ILL
Better-Bilt Door Co 950 Harbor Rd Egg Harbor NJ
Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CALDER MFG CO 630 N PRINCE LANCASTER PA
Capitol Prods Co 118 S Third Springfield Ill
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Commander Door Inc Maple Av & B&O RR Holmes Pa
CRAWFORD DOOR CO 20263 HOOVER RD DETROIT 5 MICH
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
Essential Prods Corp 1127 Madison Little Chute Wis
Farley & Loetscher Mfg Co Dubuque Iowa
FRANTZ MFG CO 301 W 3RD STERLING ILL
General Door Mfg Co 1736 N Second Milwaukee 12 Wis
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Georgia-Pacific Plywood Co 270 Park Av New York 17 NY
Hall Enterprises Casco Wis
Harris Inc 200 E Long Columbus Ohio
HOWELL MFG CO COTTMAN & HASBROOK AV PHILADELPHIA 11 PA
Kinnear Mfg Co 7th & Fields Av Columbus 16 Ohio
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Marquart Millwork Co 50 Ceape Oshkosh Wis
McKee Door Co 110 Hankee Aurora Ill
M & M Woodworking Co Kenton Sta Portland 3 Ore
Morgan Overhead Door Co 1018-24 Hodiamont St Louis Mo
NATIONAL MFG CO STERLING ILL
Northwest Door Co Box 1477 Tacoma 1 Wash
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 21 Wis
RAYNOR MFG CO E RIVER RD DIXON ILL
RICHARDS-WILCOX CO 220 THIRD AURORA ILL
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
ROWE MFG CO 614 W THIRD GALESBURG ILL
SHEFFIELD DOORS INC ROCKFORD ILL

Sheffield
OVERHEAD DOOR
sold only by lumber and building material dealers (see full-page ad this issue)

Silcrest Co 100 Thomas Wausau Wis
Simpson Logging Co White Bldg Seattle 1 Wash
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc Harvard Ill
STRAND GARAGE DOOR DIV DETROIT STEEL PRODS CO 2243 E GRAND BLVD DETROIT MICH
United Prods Co Overhead Door Div 900 N 43rd Milwaukee 8 Wis
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
Washington Door Co Tacoma Wash
Wel-Bilt Prods Co Box 95 Memphis 1 Tenn
Western Door & Plywood Corp 900 SW Second Av Portland 4 Ore

DOORS, GLASS

Angel Novelty Co 340 Broad Fitchburg Mass
Arcadia Metal Prods 324 N Second Arcadia Cal
Bache (Semon) & Co 640 Greenwich New York 14 NY
Blue Ridge Glass Corp Nicholas Bldg 12th Fl Toledo 3 Ohio
Crane Fullview Glass Door Co 4616 N Clifton Av Chicago 40 Ill
Fulton Glass Co Box 348 Hartford City Ind
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO OHIO
LONG-BELL LUMBER CO RA LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
Malibu Mfg Corp 8438 Melrose Av Los Angeles 48 Cal
Marquart Millwork Co 50 Ceape Oshkosh Wis
National Mirror Wks 1925 Kishwaukee Rockford Ill
Northwest Door Co Box 1477 Tacoma 1 Wash
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Schacht Associates Inc 1175 E 156th New York 59 NY
Shower Door Co of America 973 Peachtree NE Atlanta 5 Ga
Slide-View Steel Door & Window Co 521 N LaCienega Blvd Los Angeles 48 Cal
Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY

DOORS, HARDWOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill
American Sash & Door Co Kansas City 1 Mo
Angel Novelty Co 340 Broad Fitchburg Mass
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Braund-Harmon Co Wabeek Bldg Birmingham Mich
Braund (W R) Co Wabeek Bldg Birmingham Mich
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Carnahan Mfg Co Loogootee Ind
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Curtis Cos Inc American Plywood Div New London Wis
Davis Plywood Corp 12555 Berea Rd Cleveland 1 Ohio
Dyke Bros Little Rock Ark
Farley & Loetscher Mfg Co Dubuque Iowa
GENERAL PLYWOOD CORP 3131 W MARKET LOUISVILLE 2 KY
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Georgia-Pacific Plywood Co 270 Park Av New York 17 NY
Goshen Sash & Door Co E Purl Goshen Ind
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ipik Plywood Corp Kenner Iowa
Letraco Building Prods 8 Broadway New York 4 NY
M & M Woodworking Co 2301 N Columbia Blvd Portland 17 Ore
M & S Inc 15 E Third Cincinnati 2 Ohio
Marquart Millwork Co Oshkosh Wis
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Michigan Door Co 330 Franklin SW Grand Rapids Mich
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Morgan Co 520 Oregon Oshkosh Wis
Northern Sash & Door Co Hawkins Wis
PAINE LUMBER CO LTD 73 W ALGONA OSHKOSH WIS
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Quigley (J R) Co Gloucester City NJ
Rock Island Millwork Co Rock Island Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
Segelke & Kohlhaus Co 600 S Second LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
THOMASON PLYWOOD CORP BOX 352 FAYETTEVILLE NC
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Walled Lake Door Co Walled Lake Mich
Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich

DOORS, LAUNDRY CHUTE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Ideal Cabinet Corp Div Des Lauriers Column Mould Co Inc 7722 Joy Rd Detroit 4 Mich
Ideal Cabinet Corp 5131 Dempster Skokie Ill
Kluegel (Ernest) & Co 169 W Kellogg Blvd St Paul 2 Minn
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH
Marquart Millwork Co 50 Ceape Oshkosh Wis
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO

DOORS, LOUVRE, WOOD

Anson & Gilkey Co Logan Av & Sales St Merrill Wis
CARR, ADAMS & COLLIER CO 11TH JACKSON DUBUQUE IOWA
Clearview Louver Window Co 2625 Elm Dallas 1 Tex
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Georgia-Pacific Plywood Div Acme Door Div Queen & Lincoln Hoquiam Wash
Goshen Sash & Door Co E Purl Goshen Ind
Hurd Millwork Corp Medford Wis
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
Kaufmann Corp 17210 Gable Detroit 12 Mich
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Morgan Co 520 Oregon Oshkosh Wis
National Screen Door Co Box 1887 Montgomery 3 Ala
Pro-Tect-U Jalousie Corp Box 1108 Coral Gables Fla
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S Second LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
Tartan Industries Inc 230 Fifth Av New York NY
Union Machine Co 708 Colfax Av Kenilworth NJ
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN

DOORS, METAL

Adams Co Box 268 Dubuque Iowa
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
American Sheet Metal Wks 325 N Alexander New Orleans La
AMERICAN WELDING & MFG CO WARREN OHIO
Bayley (William) Co 1200 Warder Springfield Ohio
BILCO CO BOX 1203 WEST HAVEN 5 CONN
Bogert & Carlough Co Washington Av Paterson NJ
Brasco Mfg Co 152nd & Commercial Av Harvey Ill
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Crittal Inc Waukesha Wis
Croft Steel Prods Inc 10 Market Jamestown NY
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY
Davis & Sichl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Demsey & Associates 8931 Carnegie Cleveland 6 Ohio
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Diebold Co Inc 818 Mulberry Rd SE Canton 2 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AVE PHILADELPHIA 24 PA
Harris Preble Fire Doors Inc 4608 W 20th Chicago 50 Ill
HOPE'S WINDOWS INC 84 HOPKINS JAMESTOWN NY
International Fireproof Door Co 76-78 Lexington Av Brooklyn 5 NY
International Steel Co 1321 Edgar Evansville 7 Ind
KAWNEER CO 1105 N FRONT NILES MICH
Kinnear Mfg Co Seventh & Fields Av Columbus Ohio
Marmet Corp Box 208 Wausau Wis
Martin-Parry Corp 1455 W Alexis Rd Box 964 Toledo Ohio
Mesker Bros Sixth, Poplar & Seventh St Louis Mo
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Mosler Safe Co 320 Fifth Av New York 1 NY
Natcor Store Fronts 15 Fourth Taunton Mass
Newman Bros Inc 660 W 4th Cincinnati 3 Ohio
RICHARDS-WILCOX CO 220 THIRD AURORA ILL
Richmond Fireproof Door Co Box 334 Richmond Ind
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Smith (F P) Wire & Iron Wks 2340 N Clybourne Av Chicago 14 Ill
Soule Steel Co San Francisco 24 Cal
STEELCRAFT MFG CO 9183 BLUE ASH RD ROSSMOYNE OHIO
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Thorn (JS) Co Allegheny Av & 20th Philadelphia Pa
Truline Developments 9155 Sunset Blvd West Hollywood 46 Cal
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STEEL FABRICATORS INC WOOSTER OHIO
Variety Mfg & Eng Co 810 W Fulton Chicago 7 Ill
Virginia Metal Prods Inc Dept A-44 Orange Va
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
Williamsburg Steel Prods Co 86 Quay Brooklyn 22 NY
Wilson (J G) Corp 372 Lexington Av New York 17 NY

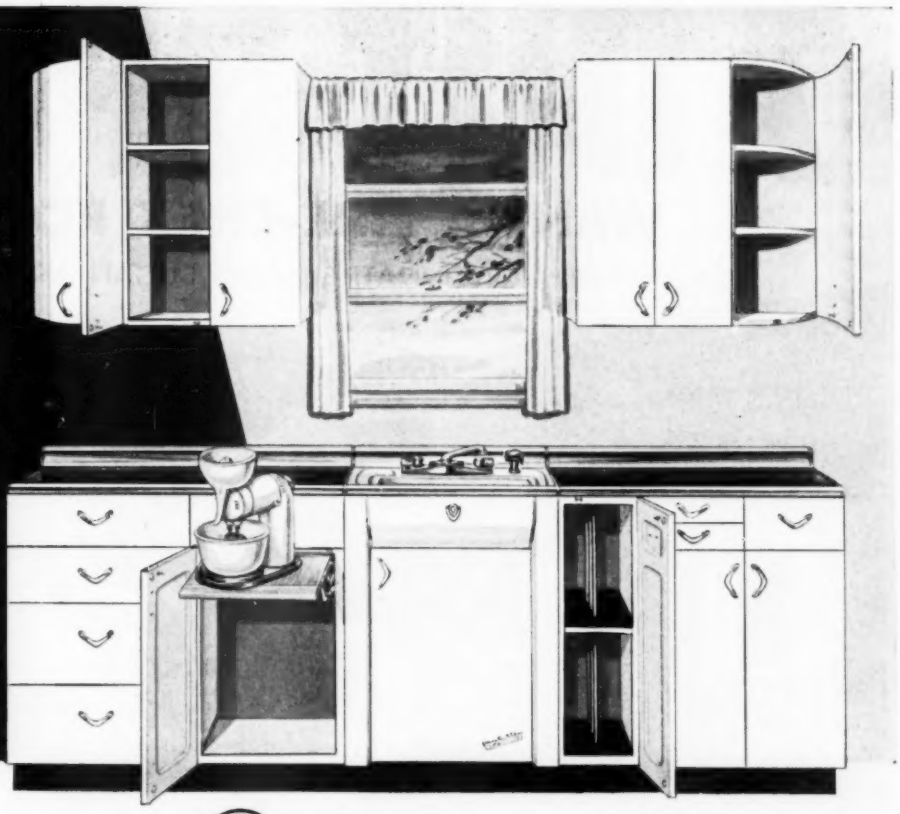
DOORS, PLYWOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill
Angel Novelty Co 340 Broad Fitchburg Mass
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Braund (W R) Co Wabeek Bldg Birmingham
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Clear Fir Sales Co Box 188 Springfield Ore
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Curtis Cos Inc American Plywood Div New London Wis
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
GENERAL PLYWOOD CORP 3131 W MARKET LOUISVILLE KY
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Hamptonite Door Mfg Co Varnville SC
HIGGINS INC BOX 8001 NEW ORLEANS LA
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Ipik Plywood Co Kenner La
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
M & M Woodworking Co 2301 N Columbia Blvd Portland 17 Ore
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich
National Plywoods Inc 2710 Throop Chicago Ill
North-Robbins Plywood Inc 400 Boren Av N Seattle 9 Wash
Pacific Mutual Door Co Tacoma Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
Quigley (J R) Co Gloucester City NJ
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Silcrest Co 100 Thomas Wausau Wis
Simpson Logging Co White Bldg Seattle 1 Wash
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Weisberg-Baer Co 405 26th Av Long Island City NY
Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich

DOORS, PONDEROSA PINE

Anson & Gilkey Co Logan Av & Sales Merrill Wis

NOW... more kitchen features than ever before in any given space with



DIANA-STYLE Youngstown STEEL Kitchens

New Diana-style Youngstown Kitchens now let you custom-plan kitchens for even the most modest budget.

Diana ensemble sinks combine perfectly with all other Youngstown Kitchens units; allow more features that home buyers want *in any given space.*

Your homes gain added sales appeal when you include nationally accepted Youngstown Kitchens. And you enjoy the economies of mass-produced steel units that are quickly, easily installed . . . save hours of labor on the job.

And Youngstown Kitchens Jet-Tower* Dishwasher and Food Waste Disposer give your homes the extra convenience and luxury home buyers want and are ready to pay for.

Get the complete story on custom planning with Youngstown Kitchens. Mail coupon today.

*Reg. U. S. Pat. Off.

Youngstown STEEL Kitchens

MULLINS MANUFACTURING CORPORATION • WARREN, OHIO
World's Largest Makers of Steel Kitchens

Cabinets of steel for lasting appeal

EXCLUSIVE SELLING AIDS FOR HOME BUILDERS

"Be Your Own Landlord"

"Best-seller" booklet for home builders. Designed to convince prospects of the wise investment possible thru becoming a homeowner. Contains a special section on the importance of using a qualified builder. Write for details.

"Adventures in Kitchen Decorating"

Styled by one of the nation's top interior decorating authorities. Includes ideas on decorating kitchens with a flair and taste for the original. Write for full information.

Youngstown Kitchens
Mullins Manufacturing Corporation
Builder Sales Department
Dept. AB-454, Warren, Ohio

Have my distributor contact me about the custom planning possible with Diana-style Youngstown Kitchens.

NAME (Please print) _____

ADDRESS _____

CITY _____ ZONE _____

COUNTY _____ STATE _____

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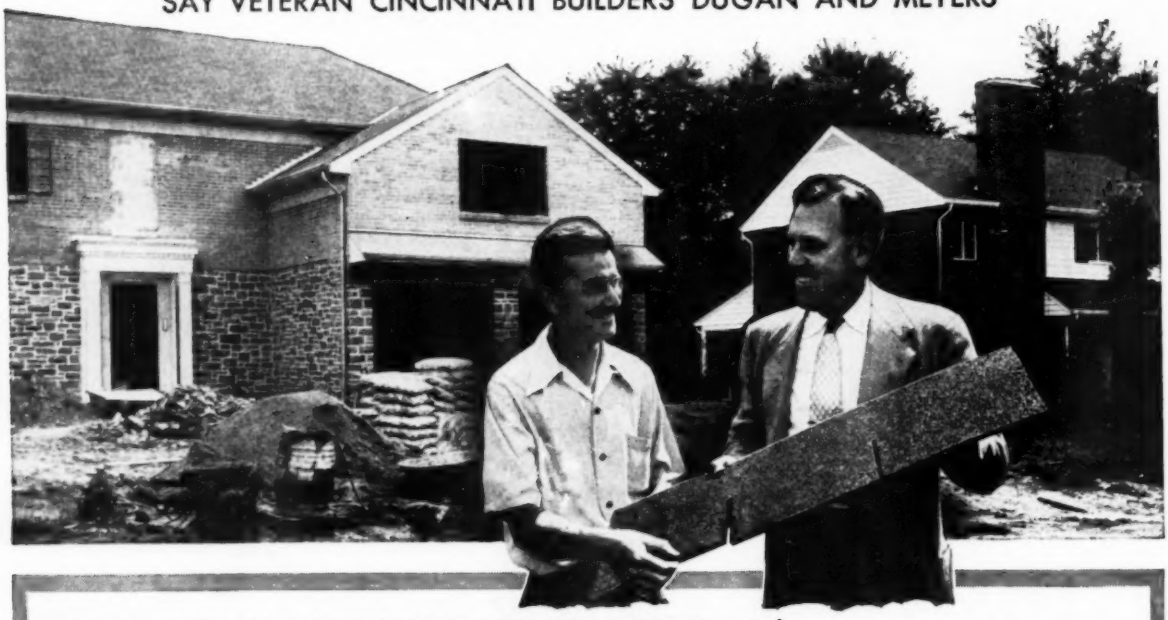
7 OUT OF 10

WANT A FIRE-CHEX ROOF

SAY VETERAN CINCINNATI BUILDERS DUGAN AND MEYERS



BUILD BETTER FOR BIGGER PROFITS WITH CAREY FIRE-CHEX!

No Other Roofing Material Offers All These Advantages.

Greater Fire Safety—Actual U. L. tests proved that Carey Fire-Chex will resist a blazing wood brand **108 times larger** than the size used to test Class C shingles . . . qualified these great new shingles for the highest possible fire safety rating—Class A by Underwriters' Laboratories, Inc.

Beautiful Copyrighted Roof Designs—Only Fire-Chex Shadow-Blend shingles can be laid in **exclusive** copyrighted shadow blend roof designs that cannot be duplicated! Available in shadow blends of green, gray, red, brown and Shasta Snow—also rich solid shades in Velvet Black and Chocolate Brown.

Years and Years More Protection—Tests under the roughest weather conditions dished up by nature—from sub-frigid cold to sizzling heat—prove that Carey Fire-Chex resist blistering, hail and wind damage far better than ordinary roofing materials.

What an array of "extras" to help you build **better** for **bigger profits**! See your Carey Dealer for samples and prices!

Fire-Chex Specifications:
12x36 inches—Square Butt 3-Tab—Headlap 2 inches—Exposure 5 inches—Weight: approx. 325 lbs. per sq.—Colors: Green, Red, Gray, Brown and Shasta Snow Shadow Blends. In solid colors, Velvet Black and Chocolate Brown.

Please refer to Sweets Catalog for further information or write Dept. AB-4

"You'll be pleased to know that Carey Fire-Chex asbestos - plastic shingles are the preferred roofing on the great majority of new homes we build. Once we tell folks the facts about Fire-Chex, and show samples of those beautiful blends and colors, no shingles but Fire - Chex will do. That's true even on jobs where it means spending a little more to get Fire-Chex, than for ordinary asphalt shingles. Naturally, we're sold on Fire-Chex. They run true to size—go on faster, give us more profit per job and provide greater satisfaction for our customers."

Jerome E. Meyers

Carey

The Philip Carey Mfg. Co.
Cincinnati 15, Ohio
In Canada: The Philip Carey Co., Ltd.
Montreal 3, P.Q.

Bathroom Cabinets and Accessories - - Ceramo Asbestos Siding - - Fire-Guard Rock Wool Insulation - - Other Famous Products for Home, Farm and Industry

CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Memphis 2 Tenn
CURTIS COS 1200 S SECOND CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Ideal Co 24th & Mary Waco Tex
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Morgan Co 520 Oregon Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Northern Sash & Door Co Hawkins Wis
Roberson (A) & Son Inc Box 111 Binghamton NY
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S Second La-Crosse Wis
Silcrest Co 100 Thomas Wausau Wis
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL

DOORS, PREFIT

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Burke Millwork Co Seattle 3 Wash
Cruver Door Co 308 Security Bldg Box 1102 Tacoma Wash
Farley & Loetscher Mfg Co Dubuque Iowa
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Hurd Millwork Corp Medford Wis
LONG-BELL LUMBER CO 926 GRAND KANSAS CITY 6 MO
Lutze (Wm R) Co 18 Bergen Brooklyn NY
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
PAINE LUMBER CO LTD 73 W ALGONA OSHKOSH WIS
Plytex Corp 1731 Elston Av Chicago 22 Ill
Silcrest Co 100 Thomas Wausau Wis
Wadsworth Inc 2949 Chrysler Rd Kansas City Kan

DOORS, REVOLVING

GENERAL BRONZE CORP STEWART AV GARDEN CITY LI NY
International Steel Co 1321 Edgar Evansville 7 Ind
Michaels Art Bronze Co Covington Ky
Revolvodor International 420 Market San Francisco Cal

DOORS, SCREEN, WOOD FRAME

American Sash & Door Co Kansas City Mo
Angel Novelty Co Fitchburg Mass
Burke Millwork Co Seattle 3 Wash
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America Inc 1254 La-Brosse Detroit 26 Mich
COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA
Cole Mfg Co Memphis 2 Tenn
Continental Screen Co 1323 Book Bldg Detroit 26 Mich
Crown Shade & Screen Co Boston Mass
CURTIS COS INC 1200 S SECOND AVE CLINTON IOWA
Detien Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY
Farley & Loetscher Mfg Co Dubuque Iowa
Fordyce-Crossett Lumber Co Fordyce Ark
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo
Kane Mfg Corp Box 641 Kane Pa
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
National Screen Co Inc Suffolk Va
National Screen Door Co Box 1887 Montgomery 3 Ala
North-Robbins Plywood Inc 400 Boren Av N Seattle 9 Wash
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
Pacific Mutual Door Co Tacoma Wash
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Prentice (F W) & Co 430 N Dean Adrian Mich
Roach & Musser Co Muscatine Iowa
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
Robinson Plywood & Timber Co Box 904 Everett Wash
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S Second La-Crosse Wis
Schumacher (F E) Co 200 Mill Hartville Ohio
Semling-Menke Co S Nast St Merrill Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Silcrest Co 100 Thomas Wausau Wis
Universal Fabricators 1801 Boone Av Bronx 60 NY
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN
White Pine Sash Co E 4005 Broadway Spokane Wash
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

DOORS, SHOWER

BECO CORP 3035 CANTON DALLAS TEX
BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX
California Shower Door Co 3738½ E Colorado Blvd Pasadena 8 Cal
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Downey Shower Door Co 8246 E Phlox Downey Cal
FIAT METAL MFG CO 9302 BELMONT AV FRANKLIN PARK ILL
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Glass Shower Door Co Inc 105 W Wacker Chicago Ill
Harvey Machine Co Inc 19200 S Western Av Torrance Cal
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Kesko Prods Inc Box 98 Bristol Ind
Ketcham (G M) Mfg Corp 70-70-80th Glendale Brooklyn 27 LI NY
Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
National Metal-Art Mfg Co 1900 Eighth Av Brooklyn 15 NY
National Mirror Works 1425 Kishwaukee Rockford Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Shower Door Co of America 973 Peachtree St NE Atlanta 5 Ga
Windsor Shower Door Co 4532 San Fernando Glendale 4 Cal
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

DOORS, SIDEWALK

Adams Co Dubuque Iowa
BILCO CO BOX 1203 WEST HAVEN 5 CONN
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Fries & Son Covington Ky
Logan Co 201 Cabel Louisville 6 Ky
Metal Crafters East Av at 18th NE Cedar Rapids Iowa

DOORS, SLIDING, RESIDENTIAL

ABC Steel Equipment Co 211 E 22nd New York NY
ABC Steel Equipment Co Inc 17th & 1st Av Tampa 5 Fla
Accurate Metal Weatherstrip Co 216 E 26th New York NY
ADAMS ENGINEERING CO INC BOX 936 LITTLE RIVER BRANCH MIAMI 38 FLA
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
Alexander Exiner Co Merchandise Mart Chicago 54 Ill
AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA
American Steel Door Co 6445 E Hildale Detroit 34 Mich
AMERICAN WELDING & MFG CO WARREN OHIO
Arcadia Metal Prods 324 N 2nd Av Arcadia Cal
Buffelen Lumber & Mfg Co Tacoma Wash
BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Cole Mfg Co Memphis 2 Tenn
Craftwood Prods 94 Stevenson Belleville NJ
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Dorflo Mfg Co 1904 First Av Hibbing Minn
EZ-WAY SALES INC ST PAUL PARK MINN
Farley & Loetscher Mfg Co Dubuque Iowa
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Folmar (R H) Co 205 E Riverside Dr Austin Tex
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Glide Windows Inc 7463 Varna Av North Hollywood Cal
HASKELITE MFG CORP 701 ANN NW GRAND RAPIDS 2 MICH
Hurd Millwork Corp Medford Wis
Ideal Co 24th & Mary Waco Tex
Ipik Plywood Co Box 248 Kenner La
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
M & M Woodworking Co Kenton Sta Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Miller (Frank B) Mfg Co 3216 Valhalla Dr Burbank Cal
Milo Prods Co Grantham Penn
Morgan Co 520 Oregon Oshkosh Wis
Nasco Wood Prods Inc 402 E 108th New York 16 NY
NATIONAL DOOR CO 163 AV A BAYONNE NJ
Nordahl Co 180 W Alameda Av Burbank Cal
Nudor Mfg Corp 7326 Fulton Av North Hollywood Cal
ONE-DER FRAME CORP 1232 N 37TH PL BOX 3068 BIRMINGHAM 3 ALA
Orchard Bros Inc 63 Meadow Rd Rutherford NJ
Orchard Mfg Co Easton Pa
Panaview 13434 Raymer North Hollywood Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Rock Island Millwork Co Rock Island Ill
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Silcrest Co 100 Thomas Wausau Wis
Slide Master Glass Door & Window Co 9015 Wilshire Blvd Beverly Hills Cal
SLID-VIEW STEEL DOOR & WINDOW CO 521 N LA CIENEGA BLVD LOS ANGELES CAL
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
US Sliding Door Corp 241 Lexington Av New York 16 NY
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
UNITED STEEL FABRICATORS INC WOOSTER OHIO
Virginia Metal Prods Inc Dept A-44 Orange Va
Vista Sliding Doors 7052 Laurel Canyon Blvd North Hollywood Cal
Walker (T V) & Son Inc 217 N Lake Box 547 Burbank Cal
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

DOORS, SOFTWOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill
American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
Angel Novelty Co 340 Broad Fitchburg Mass
Cole Mfg Co Box 2657 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Dyke Bros Little Rock Ark
Farley & Loetscher Mfg Co Dubuque Iowa
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Goshen Sash & Door Co E Purl St Goshen
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo
Hyde-Murphy Co Murphy Bldg Ridgway Pa
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Morgan Co 520 Oregon Oshkosh Wis
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
Quincy Adams Colonial Doors 118 Maple Manchester NH

Roach & Musser Co Muscatine Iowa
Robinson Plywood & Timber Co Box 904 Everett Wash
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S Second La-Crosse Wis
Silcrest Co 100 Thomas Wausau Wis
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP DEPT 615 55 W 44TH NEW YORK 18 NY
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL

DOORS, ROLLING, STEEL

Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Kinnear Mfg Co 5120 Fields Av Columbus 16 Ohio
Lawrence Steel Co 5746 Venice Blvd Los Angeles 35 Cal
Mahon (R C) Co Box 4666 Detroit 34 Mich
MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL
Steelbilt Inc 18001 S Figueroa Gardena Cal
Wilson (J G) Corp 372 Lexington Av New York 17 NY

DOORS, ROLLING, WOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Capitol Prods Co 118 S Third Springfield Ill
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
Marquart Millwork Co 50 Ceape Oshkosh Wis
Plytex Corp 1731 Elston Av Chicago 22 Ill
Silcrest Co 100 Thomas Wausau Wis
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Wilson (J G) Corp 372 Lexington Av New York 17 NY

DOORS, STORM, WOOD & METAL

Alsco Inc 260 S Forge Akron 8 Ohio
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
Angel Novelty Co Fitchburg Mass
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus 6 Ohio
Buffelen Lumber & Mfg Co Tacoma Wash
Burke Millwork Co Seattle 3 Wash
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Cole Mfg Co Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Eagle Picher Co American Bldg Cincinnati 1 Ohio
Farley & Loetscher Mfg Co Dubuque Iowa
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
Huttig Mfg Co Muscatine Iowa
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
M & M Woodworking Co Kenton Sta Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Molony Door Co 2410 Terminal Tower Cleveland Ohio
Morgan Co 520 Oregon Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Northwest Door Co Box 1477 Tacoma 1 Wash
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
Rock Island Millwork Co Rock Island Ill
Schumacher (F E) Co 200 Mill Hartville Ohio
Silcrest Co 100 Thomas Wausau Wis
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
Wheeler Osgood Co 1216 St Paul Tacoma 1 Wash
White Pine Sash Co E 4005 Broadway Spokane Wash
Window Conditioning Co 32 Brown Barberton Ohio
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

DRAINS, FLOOR

Adams Co Box 768 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Harris Inc 200 E Long Columbus Ohio
Heinz (Wm V) 935 Hennepin Av La Salle Ill
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Louden Machinery Co 261 Court Fairfield Iowa
MAJESTIC CO HALL ST HUNTINGTON IND
Modern Iron Wks 540 S 5th Quincy Ill
National Lead Co 111 Broadway New York 6 NY
Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY
Vestal Mfg Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wilmington Casting Co 258 Charles Wilmington Ohio
Zurn (J A) Mfg Co Erie Pa

DRAINS, ROOF

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
National Lead Co 111 Broadway New York 6 NY
Wilmington Casting Co 258 Charles Wilmington Ohio
Zurn (J A) Mfg Co Erie Pa

DRESSERS, GRINDING WHEEL

BEHR-MANNING CORP 1554 SEIFERT TROY NY
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
CALDER MFG CO 631 N PRINCE LANCASTER 3 PA
Carboloy Dept General Elec Co 11177 E Eight-Mile Rd Box 237 Detroit 32 Mich
Collmer Bros 420 S St Joseph South Bend 1 Ind
Hanchett Mfg Co 906 N State Big Rapids Mich
Karelsen (E) Inc 125 W 45th New York 19 NY

DRILL PRESSES

ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
BOICE CRANE CO 1000 W CENTRAL AV TOLEDO 6 OHIO
Champion Blower & Forge Co Lancaster Pa
Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON PITTSBURGH 8 PA
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Toolkraft Corp Plainfield St Springfield 1 Mass
Walker-Turner Co Div Kearney & Trecker Corp 639 South Av Plainfield NJ

DRILLS, BRICK, CONCRETE, TILE

Ackerman-Johnson Co 625 W Jackson Blvd Chicago 6 Ill
Arro Expansion Bolt Co 1430 N Boone Av Marion Ohio
Baltimore Tool Wks 1110 Race Baltimore 30 Md
BLACK & DECKER MFG CO TOWSON MD
Brush Nail Expansion Bolt Co Greenwich Conn
Carboloy Dept General Elec Co 11177 E Eight-Mile Rd Box 237 Detroit 32 Mich
Chicago Expansion Bolt Co 1338 W Concord Chicago 12 Ill
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio
Cleveland Twist Drill Co 1242 E 49th Cleveland 14 Ohio
Damascus Steel Prods Corp Rockford Ill
Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ
Gardner-Denver Co Quincy Ill
Holub Industries Inc 413 De Kalb Av Sycamore Ill
Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa
Kennametal Inc Latrobe Pa
Kraeuter & Co Newark NJ
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Mephisto Tool Co Inc Box 16 Hudson NY
MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS
New England Carbide Tool Co 60 Brookline Cambridge 39 Mass
Paine Co Fullerton & Westgate Rd Addison Ill
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal
Rainey-Tools Grove City Pa
Rawlplug Co Inc Industrial Div 271 Church New York 13 NY
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
Star Expansion Bolt Co 147-149 Cedar New York 6 NY
Super Tool Co 21650 Hoover Rd Detroit 13 Mich
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Tilden Tool Mfg Co 209 Los Molinos San Clemente Cal
US Expansion Bolt Co State St & PRR York Pa
Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass
Warwood Tool Co Wheeling W Va
Wodack Electric Tool Corp 4627 W Huron Chicago 44 Ill

DRILLS, ELECTRIC, PORTABLE

Albertson & Co Inc Sioux City 3 Iowa
BLACK & DECKER MFG CO TOWSON 4 MD
BRADFORD MACHINE TOOL CO 656-671 EVANS CINCINNATI 4 OHIO
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio
CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL
Denver Floor & Safety Supply Co 3801 High Denver Colo
DREMEL MFG CO 2420 18TH RACINE WIS
FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY
Hayden Twist Drill Co 8826 Lyndon Detroit 38 Mich
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
Kett Tool Co 5 E Third Cincinnati 2 Ohio
Louisville Electric Mfg Co Louisville Ky
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Millers Falls Co Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS
Pioneer Gen-E-Motor Corp 8541 W Dickens Chicago 39 Ill
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill
PORTER CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
RCS TOOL SALES CORP BOX 1434 JOLIET ILL
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Speedway Mfg Co 1834 S 52nd Cicero Ill
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co 175 N State Aurora Ill
Tilden Tool Mfg Co 209 Los Molinos San Clemente Cal
Union Twist Drill Co 70 Monroe Athol Mass
US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio
Wodack Electric Tool Corp 4627 W Huron Chicago 44 Ill

DRILLS, GLASS

Barrett (William L) 34 School Bristol Conn
Red Devil Tools 130 Colt Irvington NJ
Somzer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

DRILLS, RIGHT ANGLE, ELECTRIC

BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Kett Tool Co 5 E 3rd Cincinnati 2 Ohio
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS

DRILLS, WELL

BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS
Consolidated Industries Inc Mixville Rd West Cheshire Conn
Ka-Mo Tools Inc 1845 S 55th Chicago 23 Ill

DRILLS, WOOD

Cleveland Twist Drill Co 1242 E 49th Cleveland 14 Ohio
Deuse (E W) Co Chester Conn
Forest City Bit & Tool Co 1206 Kishwaukee Rockford Ill
Garner (R D) Co Inc 106 Hospital Providence RI
General Hdwe Mfg Co Inc 80 White New York 13 NY
Graham (John H) & Co Inc 105 Duane New York 8 NY
Greenfield Tap & Die Corp Greenfield Mass
GREENLEE TOOL CO 2136 12TH ROCKFORD ILL
Hayden Twist Drill Co 8626 Lyndon Detroit 38 Mich
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS
Sibley (Edw L) Mfg Co Inc 222 W Main Bennington Vt
STANLEY WKS 111 ELM NEW BRITAIN CONN
Star Bit & Tool Co Rockford Ill
Syracuse Twist Drill Co Inc 1046 S Townsend Syracuse 3 NY
Thor Power Tool Co 175 N State Aurora Ill

DRIVERS & FASTENERS, CARTRIDGE ACTUATED TYPE

POWDER POWER TOOL CO 7526 SW MACADAM PORTLAND 1 ORE
RAMSET DIV OLIN INDUSTRIES INC 12117 BEREA RD CLEVELAND 11 OHIO
REMINGTON ARMS CO INC 939 BARNUM AV BRIDGEPORT 2 CONN
Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa

DRIVERS, GLAZIER'S POINT

Fletcher Terry Co 437 South Forestville Conn
Glazier's Tool Mfg Co 611 W Adams Chicago 6 Ill
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

DRIVERS, STEEL POST

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA ILL
Northwestern Steel & Wire Co Sterling Ill

DROP CLOTHS

American Tent & Awning Co 1132 Mission San Francisco 3 Cal
Astrup Co 2937 W 25th Cleveland 13 Ohio
Bemis Bros Bag Co 408 Pine Box 7 St Louis 2 Mo
Clifton Mfg Co 323 Pleasant E Waco Tex
Couch Bros Mfg Co 100 E Ware Av East Point Ga
DANIELS (C R) INC 4900 BLOCK WEATHEREDSVILLE RD HILLSDALE BALTIMORE 16 MD
Fulton Bag & Cotton Mills Atlanta 1 Ga
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Johnson (J W) Co 3100 W Randolph Bellwood Ill
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
May (D C) Co Durham NC
New York Drop Cloth Mfg Co Inc 10-57 Jackson Av Long Island City 1 NY
Standard Awning Co 83 Avon Hartford 5 Conn
Stanley (William W) Co Inc 401 Broadway New York 13 NY
Textile Industries Inc 5101 Loraine Detroit Mich
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

DRYERS, AIR

Aerovent Fan Co Inc Ash & Beacon Piqua Ohio
Attapulgus Clay Co 208 W Washington Sq Philadelphia Pa
Bailey Lumber Co Bluefield W Va
Carrier Corp 302 S Geddes Syracuse 1 NY
Dow Chemical Co Midland Mich
Frigidaire Div General Motors Corp Dayton 1 Ohio
General Air Conditioning Corp Cincinnati 9 Ohio
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
Lansdowne & Moody Houston Tex
Peirce-Phelps 437 N 5th Philadelphia 23 Pa
Puritan Sales Co Atlanta Ga
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Westinghouse Elec Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass

DRYERS, CALCIUM CHLORIDE

Dow Chemical Co Midland Mich
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Tamms Industries Inc 228 N La Salle Chicago 1 Ill

DUCTS, ALUMINUM

Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Char-Gale Mfg Co 4325 Hiawatha Minneapolis Minn
Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio

DUCTS, HEATING NON-METALLIC

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
SONOCO PRODS CO SOUTH ST HARTSVILLE SC
Superior Clay Corp Uhrichsville Ohio
Universal Concrete Pipe Co Inc 297 S High Columbus 15 Ohio

DUCTS, SHEET METAL

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Continental Steel Corp Kokomo Ind
Gichner Inc 1900 Kendall NE Washington 2 DC
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
MAJESTIC CO HALL ST HUNTINGTON IND
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY
Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio

DUMPS, ASH, FIREPLACE

Adams Co Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind
BENNETT-IRELAND CO 23 STATE NORWICH NY
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Colonial Fireplace Co 540 N Cicero Chicago 44 Ill
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Covert (H W) Co 339 E 48th New York NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Harris Inc 200 E Long Columbus 15 Ohio
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO HALL ST HUNTINGTON IND
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Tripstop Damper Co 645 W 42nd Seattle Wash
Tristop Damper Co Trussville Ala
Vestal Mfg Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore

DYES, CEMENT

Flexrock Co 36th & Filbert Philadelphia 4 Pa
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Truscon Laboratories Div Devoe & Raynolds Co Caniff at Grand Trunk Ry Detroit 11 Mich

EDGES, METAL ROOF

Alabama Metal Lath Co Box 992 Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV CANTON 5 OHIO
Braun (J G) Co 615 S Paulina Chicago 12 Ill
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Central Prods Co 57 Forest Battle Creek Mich
Continental Steel Corp Kokomo Ind
Gary-Pioneer Steel Corp Gary Ind
Illinois Zinc Co 2959 W 47th Chicago 32 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Newport Steel Corp 9th & Lowell Newport Ky
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Potts-Farrington Co 1224 Cherry Philadelphia Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

EDGERS, FLOOR, SANDING

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO
Hilger Co 1209 St Germain St Cloud Minn
HOLT MFG CO 651-81 20TH OAKLAND 12 CAL
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

ELECTRIC PUSH BUTTONS

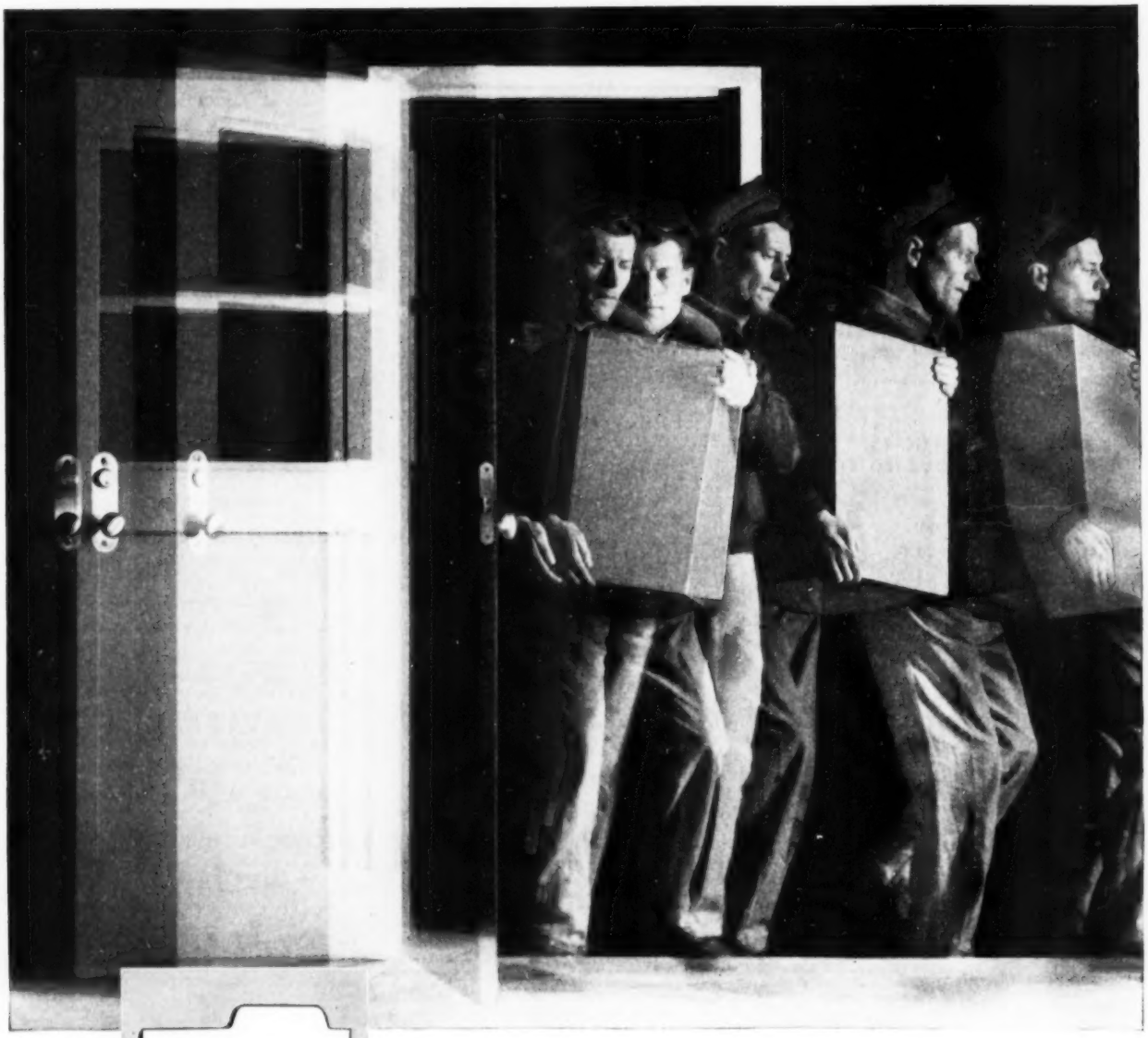
AUTH ELECTRIC CO INC 34-20 45TH LONG ISLAND CITY 1 NY
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
Liberty Bell Mfg Co Short St Minerva Ohio
NUTONE INC DEPT B-1 MADISON & RED BANK CINCINNATI 27 OHIO
Sierra Elec & Mfg Co 544 1 31st Los Angeles Cal
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Standard Bronze Co 179 W Fifth Bayonne 20 NJ
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

ELEVATORS, HAND POWER

Barrett-Cravens Co 4613 S Western Av Chicago Ill
Bodinson Mfg Co 2403 Bayshore Blvd San Francisco Cal
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Chelsea Elevator Co 549-551 W 52nd New York 19 NY
Market Forge Co 35 Garvey Everett 49 Mass
SEDGWICK MACHINE WKS 154 W 15TH NEW YORK 11 NY
Sidney Elevator Mfg Co Sidney Ohio
Whitney (Vincent) Co Box 335 Sausalito Cal

ELEVATORS, RESIDENCE

Chelsea Elevator Co 549-51 W 52nd New York 19 NY
Energy Elevator Co 214 New Philadelphia 6 Pa
Inclinator Co of America 2212 Paxton Blvd Harrisburg Pa
Kimball Brothers Co 989 Ninth Council Bluffs Iowa
Matot (D A) Inc 1539 W Altgeld Chicago Ill
Otis Elevator Co 260 Eleventh Av New York 1 NY
SEDGWICK MACHINE WKS 154 W 15TH NEW YORK 11 NY
Shepard Elevator Co 5000 Brotherton Rd Cincinnati 9 Ohio



Case history
of CECO on-the-job
performance

How 1,480,000 delivery men helped make a better door...

Ceco offers hollow-metal doors with engineered hardware . . . built to stand hard use

When Ceco engineers sought to make a better door, they went to the experts on "hard use" for ideas. They observed the wear and tear a door must take from 1,480,000 delivery men on the move . . . in a hurry . . . rushing in and out.

The result was four architect-wanted benefits, all incorporated in Ceco's new Hollow-Metal Doors:

1. Locksets that won't come loose—because doors are engineered for attaching special Yale hardware through reinforced tapped holes.

2. Hinges that hold tight—doors and frames reinforced.

3. Moldings that stay put—locked with drive-in pins.

4. Glazing beads that won't pop out—snugged with screws.

Variations of hand, swing and hardware are supplied from basic stock units . . . high production cuts costs. Put these benefits to work in your next building. Write for catalog 1040-B.

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CECO ENGINEERING
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Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American-Marietta Co 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Berry Bros Inc 21 Leib Detroit 7 Mich
Briggs-Maroney Co Everett 49 Mass
Burdsal (A) Co 206 S Capitol Indianapolis Ind
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Bronze & Color Wks 2601-12 W Grand Av Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 Third S Minneapolis 15 Minn
Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Enamel Products Co Eddy Rd & Taft Av Cleveland 8 Ohio
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio
General Paint Corp 2627 Army San Francisco 19 Cal
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124 W Carson Pittsburgh 19 Pa
Lowe Bros 436 E Third Dayton 2 Ohio
Lucas (John) & Co Inc 1619 Pennsylvania Blvd Philadelphia Pa
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Son Inc 1700 Bayard St Baltimore 30 Md
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Moore (Benjamin) & Co 511 Canal New York 13 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
PECORA PAINT CO INC 4TH & READING RR PHILADELPHIA 40 PA
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Rogers Paint Prods Inc 8250 St Aubin Detroit 11 Mich
St Louis Surfacer & Paint Co 4200 Arlington Av St Louis 20 Mo
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 11 Ohio
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
United Lacquer Mfg Corp 1001 W Elizabeth Av Linden NJ
Valentine Co 11 E 36th New York 16 NY
Vita-Var Corp 10 Commerce Ct Newark 2 NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Wadsworth Howland & Co 141 Federal Boston Mass
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Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hoboken White Lead & Color Wks Inc 15th & Adams St Hoboken NJ
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Tenth & 44th Av Long Island 1 NY
Keystone Varnish Co 71 Otsego Brooklyn 31 NY
Kyanize Paints Inc Second & Baston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lithogen Corp 10 E 40th New York 16 NY
Lowe Bros 436 E Third Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Lead Co 11 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Pabco Prods Inc 475 Brannan San Francisco Cal
Patterson-Sargent Co 1325 E 38th Cleveland Ohio
PITTSBURGH PLATE GLASS CO 632 DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sargent-Gerke Co 323 W 15th Indianapolis Ind
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Standard Tech Chemicals Inc 2600 Richmond Ter Staten Island 3 NY
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
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Buda Co Harvey Ill
Caterpillar Tractor Co 600 W Washington Peoria 8 Ill
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cleveland Diesel Engine Div General Motors Corp Cleveland 11 Ohio
Cummins Engine Co Inc 5th & Wilson Columbus Ind
Fairbanks Morse & Co 600 S Michigan Av Chicago Ill
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich
HARNISCHFEGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS
International Harvester Co 180 N Michigan Av Chicago Ill
Nordberg Mfg Co 3073 S Chase Av Milwaukee 1 Wis
OLIVER CORP 400 W MADISON CHICAGO 6 ILL
Waukesha Motor Co Waukesha Wis
Witte Engine Wks Div Oil-Well Supply Co Div US Steel Corp 1600 Oakland Kansas City 26 Mo
Worthington Corp S Second Plainfield NJ

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ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
Briggs & Stratton Corp 2711 N 13th Milwaukee 1 Wis
Buda Co Harvey Ill
Case (J I) Co 702 State Racine Wis
Fairbanks Morse & Co 600 S Michigan Av Chicago Ill
Fuller & Johnson Mfg Co Madison Wis
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
International Harvester Co 180 N Michigan Av Chicago Ill
KOHLER CO 44 HIGH KOHLER WIS
MASTER WOODWORKER MFG CO 409 E FORT DETROIT 26 MICH
Novo Engine Co Ballantine St Lansing 5 Mich
OLIVER CORP 400 W MADISON CHICAGO 6 ILL
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill
Ready-Power Co 3820 Grand River Av Detroit Mich
Salisbury Motors Div Wayne Mfg Co Pomona Cal
Universal Motor Co 517 Universal Dr Oshkosh Wis
Waukesha Motor Co Waukesha Wis
Witte Engine Wks Div Oil-Well Supply Co Div US Steel Corp 1600 Oakland Kansas City 26 Mo

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Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
Huttig Mfg Co Muscatine Iowa
Ideal Co 24th & Mary Waco Tex
KAWNEER CO 1105 N FRONT NILES MICH
Marquart Millwork Co 50 Cenpe Oshkosh Wis
Morgan Co 520 Oregon Oshkosh Wis
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S Second La-Crosse Wis
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
Variety Mfg & Engr Co 810 W Fulton Chicago 7 Ill

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Brasco Mfg Co 152nd & Commercial Av Harvey Ill
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY
KAWNEER CO 1105 N FRONT NILES MICH
Newman Bros Inc 660 W Fourth Cincinnat 3 Ohio
Rigidized Metals Corp 687 Ohio Buffalo 3 NY

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Dearborn Stove Co 1700 W Commerce Dallas Tex
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Grillcraft Co 1067 St Clair St Paul Minn
Hancock Iron Wks 52 W Pike Pontiac Mich
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
MAJESTIC CO HALL ST HUNTINGTON IND
Master Metal Prods Inc 291 Chicago Buffalo 4 NY
Ohio Stove Co 701 Eleventh Portsmouth Ohio
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill
Wiemann (Ernest) Iron Wks 2035 E Eleventh Tulsa 4 Okla

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Celina Mfg Co Celina Ohio
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Coburn Mfg Co Whitewater Wis
Diehl Mfg Co 1185 Finderne Av Somerville NJ
Franklin Equipment Co Monticello Iowa
Gardner Mfg Co Horicon Wis
General Implement Corp Terminal Tower Cleveland 13 Ohio
Goshen Mfg Co Goshen Ind
Green Mfg Co Ogdensburg NY
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
Hummer Mfg Co Springfield Ill
James Mfg Co Fort Atkinson Wis
Logan Co 201 Cabel Louisville 6 Ky
Louden Machinery Co 261 Court Fairfield Iowa
Milwaukee Hay Tool Co Milwaukee Wis
Mitchell Mfg Co Milwaukee 7 Wis
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Ney Mfg Co 948 High Av SW Canton Ohio
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
Sioux Steel Co Sioux Falls SD
Starline Inc 300 W Front Harvard Ill
Universal Hoist & Mfg Co Cedar Falls Iowa

EQUIPMENT, FARM

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ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
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Arex Co 612 N Michigan Av Chicago 11 Ill
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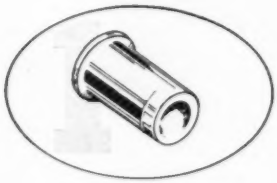
NEW WAY TO FASTEN SLEEPERS TO CONCRETE WITH *DRIVE-IT*

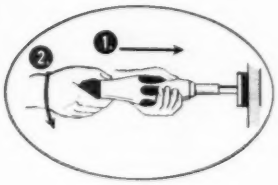
Kenbo Corp., builder of Rancho Monterey homes near Los Angeles, uses Drive-It "400" to fasten 2"x4" sleepers to the concrete floor slabs. Superintendents Walter Johnson and L. B. Swann, Drive-It users three years, say Drive-It fastenings are quick, dependable, economical.

DRIVE-IT 320
WITH
BREAK-OPEN ACTION

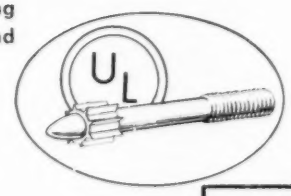
Snap open action results in the fastest operating tool on the market. Easiest method to load and eject cartridges under any condition.



Controlled Power. First and only tool which requires but one standard power load regardless of penetration desired. No need to buy and stock various strength power loads.



Three-way Safety. Cannot be discharged accidentally, due to the push and turn firing sequence. This, plus the large, swivel safety pad, makes DRIVE-IT triple safe.



Drive pins are Underwriters' Laboratories approved.

More fastenings per hour with this speedy way of loading and ejecting cartridges.

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the original **POWDER-ACTUATED TOOL**

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Butler Mfg Co 7400 E 13th Kansas City 26 Mo
Case (J I) Co Racine Wis
Century Electric Co St Louis 3 Mo
Clay Equipment Co 1148 Blake Cedar Falls Iowa
Coburn Mfg Co Whitewater Wis
Columbian Steel Tank Co Kansas City Mo
Continental Steel Corp Kokomo Ind
Deere & Co Moline Ill
Dempster Mill Mfg Co 711 S Sixth Beatrice Nebr
Des Moines Steel Tank Co Independence Mo
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Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
Freeland Sons Co Sturgis Mich
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General Implement Corp Terminal Tower Cleveland 13 Ohio
Goshen Mfg Co Goshen Ind
Hargrove Co (The) 4th & New York Des Moines Iowa
Hastings Equity Grain Bin Mfg Co Hastings Neb
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
Hudson (H D) Mfg Co 589 E Illinois Chicago Ill
Ilg Electric Ventilating Co 2850 N Crawford Av Chicago 41 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Harvester Co 180 N Michigan Av Chicago 1 Ill
James Mfg Co Fort Atkinson Wis
Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich
King Co Owatonna Minn
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Massey Harris Co Inc Racine Wis
Midland Co 1200 W Rawson Av South Milwaukee Wis
Moline Iron Wks Moline Ill
Mundie Mfg Co Peru Ind
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Nash (J M) Co 31350 Detroit Rd Westlake Ohio
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Ney Mfg Co 948 High Av SW Canton Ohio
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
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Patch (A H) Inc Clarksville Tenn
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Queen Stove Wks Albert Lea Minn
Robinson Clay Prods Co 2nd National Bank Bldg Akron Ohio
Robinson Ventilating Co Zelienople Pa
Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn
Safgard Div Grand Sheet Metal Prods Co 2055 Ruby Melrose Park Ill
Sargent-Roundy Corp Randolph Vt
Shaw (H C) Co Stockton Cal
Siebring Mfg Co Peven St George Iowa
Sioux Steel Co Sioux Falls SD
Starline Inc 300 W Front Harvard Ill
Super-Structures Inc Albert Lea Minn
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Trumbull Components Dept General Electric Co Plainville Conn
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill
Universal Hoist & Mfg Co Cedar Falls Iowa
White's (S R) Sons Inc Norfolk Va
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Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich
Chattanooga Royal Co East Chattanooga Tenn
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Colonial Fireplace Co 540 N Cicero Chicago Ill
Columbia Brick Wks 3120 SE Water Av Portland 14 Ore
Covert (H W) Co 339 E 48th New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fox Valley Forge Elgin Ill
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
Howes (S M) Inc 387 Oliver Fall River Mass
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Logan Co 201 Cabel Louisville 6 Ky
MacQueen Service 312 Savings & Trust Bldg Butler Pa
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Metal Crafters Cedar Rapids Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
OHIO FOUNDRY & MFG CO STEUBENVILLE OHIO
Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky
Pioneer Co 1051 Century Bldg Pittsburgh 22 Pa
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Sheffield Mfg Co 119 W 25th New York NY
Smith (F P) Wire & Iron Wks 2346 N Clybourn Av Chicago 14 Ill
Smith (John P) Co New Haven Conn
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Thermo-Rite Mfg Co Akron 11 Ohio
Vestal Stove Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

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Bernard (Philip) Co Sioux City Iowa
Brower Mfg Co Box 251 Quincy Ill
Celina Mfg Co Celina Ohio
Clay Equipment Corp 148 Blake Cedar Falls Iowa
Clearwater Tank Co 810 E English Danville Ill
Franklin Equipment Co Monticello Iowa
Hargrove Co 4th at New York Des Moines Iowa
Hastings Equity Grain Bin Mfg Co Hastings Neb
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
James Mfg Co Ft Atkinson Wis
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Louden Machinery Co Fairfield Iowa
Martin Steel Prods Co 11 W Longview Mansfield Ohio
Milwaukee Hay Tool Co 2773 S 29th Milwaukee Wis
National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa
Ney Mfg Co 948 High Av Canton 4 Ohio
Oakes Mfg Co Inc 516 Dearborn Tipton Ind
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa
Red Cross Mfg Co Bluffton Ind
Sioux Falls Metal Culvert Co Sioux Falls SD
Starline Inc 300 W Front Harvard Ill

EQUIPMENT, POULTRY

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American Line Lowell Mich
Anderson Box Co 700 W Morris St Indianapolis 6 Ind
Baltimore Paper Box Co Key Hwy Baltimore Md
Beatrice Steel Tank Mfg Co Beatrice Neb
Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati Ohio
Brower Mfg Co Quincy Ill
Buckeye Incubator Co Box 420 504 W Euclid Av Springfield Ohio
Close-To-Nature Co Colfax Iowa
Cyclone Mfg Co Urbana Ind
Diehl Mfg Co 1185 Finderne Av Somerville NJ
Excel Metal Cabinet Co Inc Jamestown NY
Excelsior Stove & Mfg Co Quincy Ill
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General Implement Corp Terminal Tower Cleveland 13 Ohio
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Harder Silo Co Cobleskill NY
Heller-Aller Co Napoleon Ohio
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Hudson (H D) Mfg Co 589 E Illinois Chicago Ill
James Mfg Co Ft Atkinson Wis
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Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Lancaster Mfg Co Lancaster Pa
Leahy Mfg Co Higginsville Mo
Lyon Rural Electric Co 2075 Moore San Diego 12 Cal
Macomb Steel Prods Co Macomb Ill
Miller (J W) Co Rockford Ill
National Ideal Co 914 Summit Toledo 4 Ohio
National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa
New Era Equipment Co Trenton NJ
Oakes Mfg Co Inc 516 Dearborn Tipton Ind
Paragon Utilities Corp 50 Van Dam Brooklyn NY
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
Petaluma Electric Incubator Co 416 East D Petaluma Cal
Quinn Wire & Iron Wks Boone Iowa
Reliable Incubator & Brooder Co Quincy Ill
RILCO LAMINATED PRODS INC FIRST NATIONAL BANK BLDG ST PAUL 2 MINN
Royal Mfg Co Bowling Green Ohio
Sheer (H M) Co Quincy Ill
Simplex Brooder Stove Co 220 Grandville Av SW Grand Rapids 2 Mich
Starline Inc 300 E Front Harvard Ill
Sure-Hatch Incubator Co Fremont Neb
Trumbull Electric Mfg Co Plainville Conn
United Steel & Wire Co Battle Creek Mich
Wabash Paper Box Co Terre Haute Ind
Western Stoneware Co Monmouth Ill

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Belson Mfg Co East River Rd North Aurora Ill
Davy Automatic Fire Escape Co Colvin Sta Syracuse 5 NY
General Detroit Corp 2272 E Jefferson Detroit 7 Mich
Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich
Logan Co 201 Cabel Louisville Ky
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND
Metal Crafters East Av at 18th NE Cedar Rapids Iowa
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Smith (F P) Wire & Iron Wks 2340 N Clybourn Chicago 14 Ill
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

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Hardboard Fabricators 59 Branch St Louis 7 Mo
Illinois Lumber Mfg Co Inc Cairo Ill
Pacific Board Fabricators 633 E Gage Los Angeles 1 Cal
TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

FABRIC, REINFORCING

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Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Forbes Steel Corp Cannonsburg Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Laclede Steel Co Arcade Bldg St Louis Mo
Northwestern Steel & Wire Co Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Planett Mfg Co Downey Cal

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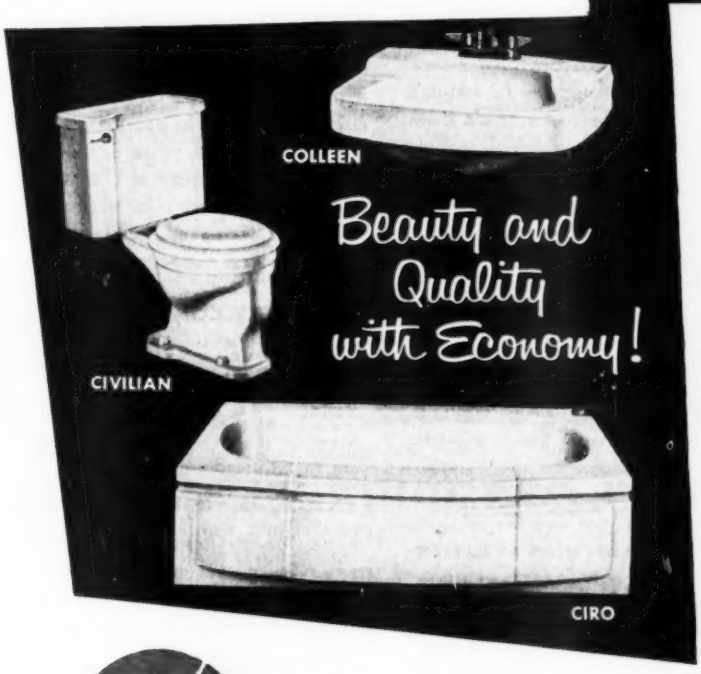
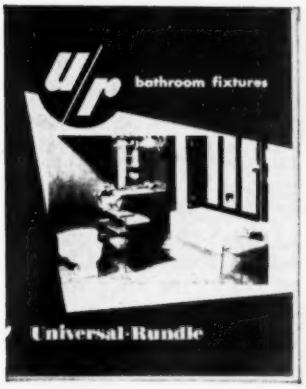
Prospects are looking for greater *value* in new homes these days—and you give them value they can *see*, with Universal-Rundle fixtures. They can see that U/R's Arctic White fixtures are the *whitest* made—can see the exceptional beauty of U/R *matched* colors. A comparison of the finish on U/R fixtures with other brands shows a quality difference that's easy to see. And that smooth, harder-than-steel U/R surface *stays* lovelier, year after year!

Your prospects recognize the U/R name, too—for they have seen U/R fixtures advertised as the world's finest, in their favorite national magazines.





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***by* Universal★Rundle**

204 River Road, New Castle, Pennsylvania

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Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Soule Steel Co 1750 Army San Francisco 24 Cal
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

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Aerovent Fan Co Inc Ash & Beacon St Piqua Ohio
Air Controls Inc 2310 Superior Av Cleveland 14 Ohio
Airmaster Corp 4317 Ravenswood Av Chicago 13 Ill
American Blower Corp Div American Radiator & Standard Sanitary Corp Tireman Av at Roselawn Detroit 32 Mich
American Coolair Corp 3604 Mayflower Jacksonville 3 Fla
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Arex Co 612 N Michigan Av Chicago 11 Ill
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
Autovent Fan & Blower Co 222 W Adams Chicago 6 Ill
Bar-Brook Mfg Co Box 738 C G Station Shreveport La
BERNS MFG CORP 3050 N ROCKWELL CHICAGO 18 ILL
Biglin (H C) Co Inc 177 Harris NW Atlanta 3 Ga
Broan Mfg Co Inc 1669 N Water Milwaukee 2 Wis
Buffalo Forge Co 490 Broadway Buffalo 4 NY
C & H Air Conditioning Fan Co 1603 DeKalb Atlanta Ga
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Champion Blower & Forge Co Lancaster Pa
Chelsea Fan & Blower Co Inc 1206 S Grove Irvington 11 NJ
Clarage Fan Co Kalamazoo 16 Mich
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Dann Fan & Blower Corp 3501 Colerain Av Cincinnati Ohio
De Bothezat Fans Div American Machine & Metals Inc East Moline Ill
Diehl Mfg Co Electrical Div Singer Mfg Co Somerville NJ
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FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY
Folsom Co Inc 3104 Oak Lane Dallas 10 Tex
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Gichner Inc 1900 Kendall NE Washington 2 DC
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Huntington Industries Inc 2368 Prospect Memphis Tenn
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International Engineering Inc Dayton 2 Ohio
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National Appliance Co 4814 W Vernor Hy Detroit 9 Mich
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PRYNE & CO INC 140 N TOWNE POMONA CAL
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Robbins & Myers Inc 1345 LaGonda Av Springfield 99 Ohio
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Starline Inc 300 W Front Harvard Ill
Stewart Mfg Co 3209 E Washington Indianapolis Ind
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Westinghouse Electric Corp Electric Appliance Div 653 Page Blvd Springfield 2 Mass
Winco Ventilator Co 4725 Goodfellow St Louis 20 Mo

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American Foundry & Furnace Co 125 N McClun Bloomington Ill
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C & H Air Conditioning Fan Co 1591-1623 De Kalb Av NE Atlanta Ga
Diehl Mfg Co 1185 Finderne Av Somerville NJ
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FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY
General Electric Co Small Appliance Div 1285 Boston Av Bridgeport 2 Conn
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Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind
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Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
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Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL

Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Soule Steel Co San Francisco 24 Cal
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
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Fabricated Prods Co Inc Water St West Newton Pa
Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY
Larson (Charles O) Co Av "G" & C&NW Ry Sterling Ill
Packard (E B) Co 139 Cedar New York 6 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Signode Steel Strapping Co 2600 N Western Av Chicago 47 Ill
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

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Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio
Packard (E B) Co 139 Cedar New York 6 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
RODDIS PLYWOOD CORP 115 S PALMETTO MARSHFIELD WIS
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Camp Co Inc 6958 S State Chicago 21 Ill
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CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
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Gichner Inc 1900 Kendall NE Washington 2 DC
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Lehon Co 4425 S Oakley Chicago 9 Ill
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BIRD & SON INC EAST WALPOLE MASS
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
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Lehon Co 4425 S Oakley Chicago 9 Ill
Logan-Long Co 6600 S Central Av Chicago 38 Ill
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Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Texas Co 135 E 42nd New York 17 NY
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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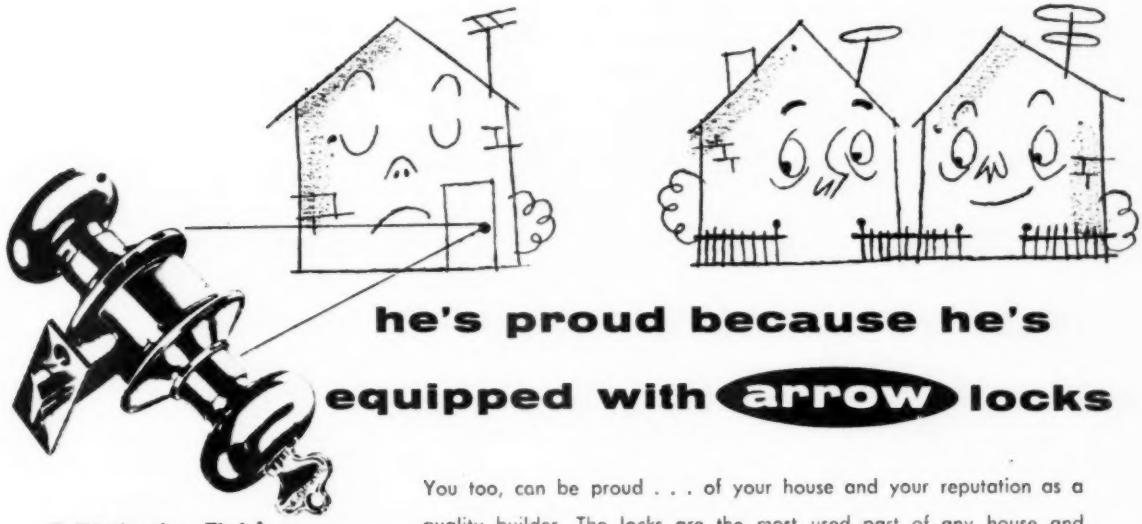
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Badger Corrugating Co LaCrosse Wis
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Continental Steel Corp Kokomo Ind
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Cleveland Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Stewart Iron Wks Co 1551 Stewart Block Cincinnati 1 Ohio
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY



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Chain Link Fence Corp 4301 W 69th Chicago 29 Ill
Colorado Fuel & Iron Corp Denver 1 Colo
Continental Steel Corp Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio
Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Logan Co Inc 1115 Franklin Louisville 6 Ky
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Page Steel & Wire Div American Chain & Cable Co Inc First & River St Monessen Pa
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
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Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Beh & Co Inc 1150 Broadway New York NY
Bellkool Co 623 S State Appleton Wis
Belson Mfg Co East River Rd North Aurora Ill
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Bethlehem Steel Co 701 E Third Bethlehem Pa
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CINCINNATI IRON FENCE CO 2110 FLORENCE AV CINCINNATI 6 OHIO
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Coffman (R G) Co Inc 2809 N Orange Av Orlando Fla
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Continental Steel Corp Kokomo Ind
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
Davis & Siehl Co 4032 Hamilton Av Cincinnati Ohio
Des Moines Ornamental Iron Co Des Moines Iowa
Fawsco Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Falls Ohio
Forbes Steel Corp Cannonsburg Pa
GENERAL BRONZE CORP STEWART AV LONG ISLAND CITY NY
General Implement Corp Terminal Tower Cleveland 13 Ohio
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Hawkins Iron Co Inc Birmingham 4 Ala
Illinois Wire & Mfg Co Box 1395 Joliet Ill
International Steel Co Evansville Ind
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Logan Co 201 Cabel Louisville 6 Ky
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Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co Sterling Ill
Page Steel & Wire Div American Chain & Cable Co Inc Monessen Pa
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Redwood Garden Materials Co Los Angeles 21 Cal
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
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Standard Mfg Co 220 E 4th Cedar Falls Iowa
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

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Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Century Fence Co Box 466 Waukesha Wis
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio
Elhide Co 130 Sixth Cambridge 42 Mass
Fence Co of America Auburndale Fla
Lincraft Inc Burlington NJ
MacGillis & Gibbs Co 1615 E Royall Pl Milwaukee 2 Wis
Whiting Fence Co 130 Sixth Cambridge 42 Mass
Wolf (Harry M) 666 Lake Shore Dr Chicago 11 Ill
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Beh & Co Inc 1150 Broadway New York NY
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Humboldt Fence & Supply Co Humboldt Iowa
Illinois Wire & Mfg Co Box 1396 Joliet Ill
Kinzua Pine Mills Co Kinzua Ore
Lincraft Inc Burlington NJ
Matteson Wire & Mfg Co Market St Joliet Ill
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Nebr
ROWE MFG CO 614 W THIRD GALESBURG ILL
Security Fence & Mfg Co 8701 N 30th Omaha 12 Nebr
Wheeler-Arnold Co Wittenberg Wis

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Badger Corrugating Co 1801-39 W Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio
Forbes Steel Corp Cannonsburg Pa
Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Jones & Laughlin Steel Co 3 Gateway Center Pittsburgh 30 Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 Ill
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 13 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div US Steel Corp Box 599 Fairfield Ala
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP DENVER COLO

FENCE, WOOD

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Atlas Fence Co 3650 Richmond Philadelphia Pa
Beh & Co Inc 1150 Broadway New York NY
Bradley Lumber Co of Ark Warren Ark
Capital Fence Co 735 N Water Milwaukee 2 Wis
Cascade Pacific Lumber Co 319 Pacific Bldg Portland 4 Ore
Concord Woodworking Co Inc 10 Behariel West Concord Mass
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Crossett Lumber Co Crossett Ark
Davis & Siehl Co 4023 Hamilton Av Box 78 Station A Cincinnati 23 Ohio
Elhide Co 130 Sixth Cambridge 42 Mass
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITAL WAY OLYMPIA WASH
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Illinois Wire & Mfg Co Box 1396 Joliet Ill
Lincraft Inc Burlington NJ
MacGillis & Gibbs Co 1615 E Royall Pl Milwaukee 2 Wis
Mattson Wire & Mfg Co Market St Joliet Ill
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Nebr
Redwood Garden Materials Co Los Angeles 21 Cal
ROWE MFG CO GALESBURG ILL
Southern Lumber Co Warren Ark
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
Whiting Fence Co 130 Sixth Av Camrbidge 42 Mass
Willamette Valley Lumber Co Dallas Ore
Wolf (Harry M) 666 Lake Shore Dr Chicago 11 Ill
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

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Carbola Chemical Co 46 Harris Rd Natural Bridge NY
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Corley Mfg Co Clifton Hills Chattanooga Tenn
Disston (Henry) & Sons Inc Tacony Station Philadelphia 35 Pa
Foley Mfg Co 3300 NE 5th Minneapolis 13 Minn
Hanchett Mfg Co 906 N State Big Rapids Mich
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

FILES & RASPS

Atkins (E C) Div Borg Warner Corp 402 S Illinois Indianapolis 9 Ind
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Delta File Wks Inc 4837 James Philadelphia 37 Pa
Disston (Henry) & Sons Inc Tacony Sta Philadelphia 35 Pa
Heller Bros Co Heller Dr Newcomerstown Ohio
Hoe (R) & Co Inc 910 E 138th New York 54 NY
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
Nicholson File Co Providence RI
Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SIMONDS SAW & STEEL CO FITCHBURG MASS

FILLERS, CRACK & JOINT

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill

American Varnish Co 1140 N Branch Chicago 22 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Blue Ridge Talc Co Henry Va
Boston Varnish Co 114 Second Boston 49 Mass
Boyer Chemical Laboratory Co 2232 S Wabash Chicago 16 Ill
Boyle-Midway Inc 22 E 40th New York 16 NY
Camp Co Inc 6953 S State Chicago 21 Ill
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Durham (Donald) Co Box 804 Des Moines 4 Iowa
Fabricated Prods Co Water St West Newton Pa
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Glidden Co 11001 Madison Cleveland 2 Ohio
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio
Lasting Prods Co Baltimore 1 Md
Liebich (G L) Co 931 N Ogden Chicago 22 Ill
Lowe Bros 436 E Third Dayton 2 Ohio
Meadows (W R) Inc 2 Kimball Elgin Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Perkins Glue Co 652 Cannon Av Lansdale Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Reardon Co 7501 Page Av St Louis 14 Mo
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E 2nd Los Angeles 12 Cal
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
Sheffield Bronze & Paint Corp 17814 Waterloo Cleveland 19 Ohio
Smooth-On Mfg Co 572 Communipaw Av Jersey City 4 NJ
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Technical Supply Co 1911 University Av Palo Alto Cal
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Webb Prods Co 216 S "G" San Bernardino Cal
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal
X-Pando Corp 43-15 36th Long Island 1 NY

FILLERS, JOINT, SEWER PIPE

Asbestos Co of Texas Div Philip Carey Mfg Co Box 1082 Houston 1 Tex
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kaul Clay Mfg Co Toronto Ohio
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Robinson Clay Products Co Second National Bank Bldg Akron 9 Ohio
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

FILLERS, WOOD

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Berry Bros Inc 211 Leib Detroit 7 Mich
Boyle-Midway Inc 22 E 40th New York 16 NY
Breinig Bros 223 Adams Hoboken NJ
BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Du Pont (E I) de Nemours & Co 1007 Market Wilmington 98 Delaware
Elliott Paint & Varnish Co 4525 W Fifth Av Chicago 24 Ill
Felton Sibley & Co Inc 136 N 4th Philadelphia 56 Pa
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Keystone Varnish Co 71 Otsego Brooklyn 31 NY
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros 436 E Third Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Moore (Benjamin) & Co 511 Canal New York NY
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Parker (Ira) & Sons Oshkosh Wis
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert 82 Tonawanda Buffalo 7 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 East Second St Los Angeles Cal
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Webb Prods Co 216 "G" San Bernardino Cal
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

FILTERS, AIR

Air Devices Inc 17 E 42nd New York 17 NY
Badger Corrugating Co 1801-39 West Av S LeCrosse Wis
HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO OHIO
Research Prods Co 1015 E Washington Av Madison 10 Wis
Trion Inc 1000 Island Av McKees Rock Pa

FINANCING SERVICES

Allied Building Credits Inc Box 3426 Terminal Annex Los Angeles 54 Cal
Commercial Credit Corp First National Bank Bldg Baltimore Md
Crawford Corp 1901 North 3rd Baton Rouge La
Douglas-Guardian Warehouse Corp 118 N Front New Orleans 1 La
Investors Diversified Services Inc 200 Roanoke Bldg Minneapolis Minn
Lawrence Warehouse Co WP Story Bldg Los Angeles Cal
National Life Insurance Co Montpelier Vt
St Louis Terminal Warehouse Co St Louis Mo
US Savings & Loan League 221 N La Salle Chicago Ill

FINISHERS, CONCRETE FLOOR

Camp Co Inc 6958 S State Chicago 21 Ill
Whitman Mfg Co 3249 Casitas Av Los Angeles 39 Cal

FINISHERS, WALLBOARD JOINT

CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Durham (Donald) Co Box 804 Des Moines 4 Iowa
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Schalk Chemical Co 351 East Second St Los Angeles 12 Cal
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
UPSON CO 43 UPSON PT LOCKPORT NY
Wesco Waterpaints Inc Matteson Ill

FINISHES, WATERPROOF, ASPHALT

Dewatex Mfg Corp W 42nd & Dyer Av New York 17 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES GYSPUM CO 300 W ADAMS CHICAGO 6 ILL

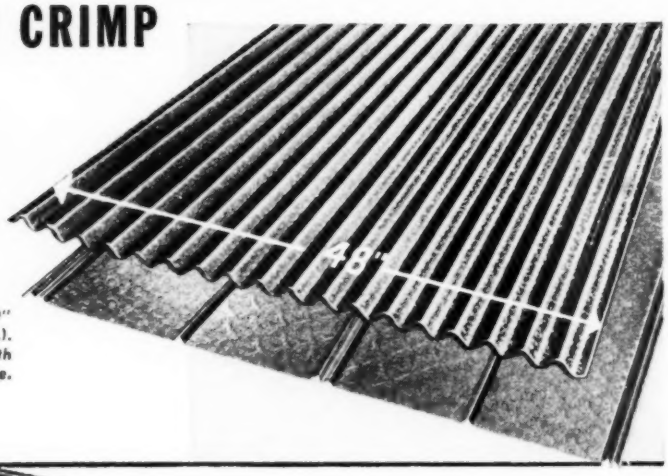
FINISHES & SEALER, FLOOR

Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR TOLEDO 3 OHIO
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio
American-Marietta Co 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Boston Varnish Co 114 Second Everett Station Boston 49 Mass
BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN
Camp Co Inc 6958 S State Chicago 21 Ill
Camp Chemical Co Inc 170 Second Av Brooklyn 15 NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Chicago Bronze & Color Wks 2639 W Grand Av Chicago 12 Ill
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Cromar Co Susquehanna St Williamsport Pa
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Du Pont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
FLINTKOTE CO INC 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Franklin Research Co 5137 Lancaster Av Philadelphia 31 Pa
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Hilger Co 1209 St Germain St Cloud Minn
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
International Chemical Co 3140 S Canal Chicago 16 Ill
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros Co 424 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Minneapolis Builders Supply Co 927 2nd Av South Minneapolis 2 Minn
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
Minnesota Platon Corp Platon Bldg Pipestone Minn
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Moore (Benjamin) & Co 511 Canal New York 13 NY
Nu Surfas Corp 7312 Bennett Av Chicago 49 Ill
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Pierce & Stevens Inc 710 Ohio Buffalo 3 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Av NW Cleveland Ohio
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth New York 16 NY
Standard Floor Co Gulf Bldg Pittsburgh Pa
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Technical Supply Co 1911 University Av Palo Alto Cal
Tremco Mfg Co 8701 Kinsman Rd Cleveland 4 Ohio
Tuferete Co Inc 553 Teachout Bldg Des Moines 9 Iowa

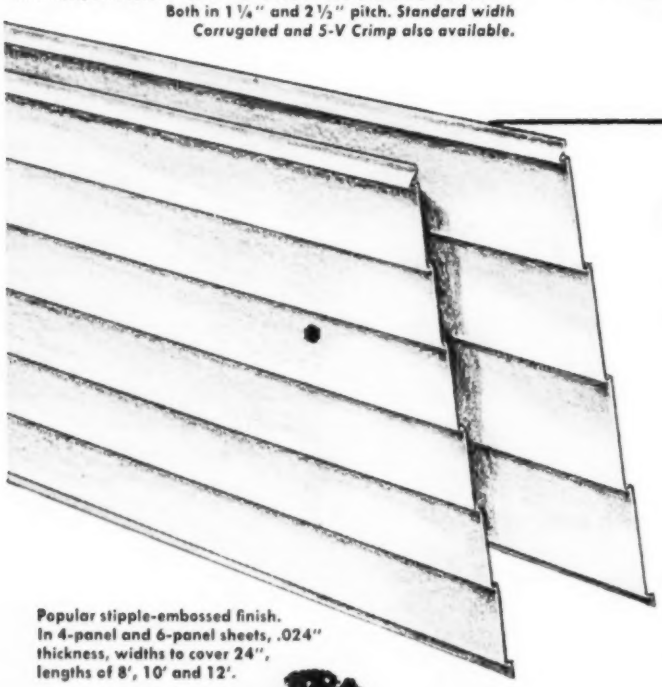
New! 48-INCH WIDE SHEETS! REYNOLDS *Lifetime* ALUMINUM

CORRUGATED AND 8-V CRIMP

These new 48" sheets make rustproof, heat-reflective Reynolds *Lifetime* Aluminum a bigger roofing and siding bargain than ever! 50% fewer sheets to handle—50% less metal taken up at side laps! Saves on labor and material, and gives the buyer a tighter, better looking job. Write for Literature. (Address on next page.)



In 6', 7', 8', 9', 10', 11', 12' lengths, *Plain* in .019" thickness, *Embossed* in .019" and .024" (26 and 24 U.S.Std.Ga.). Both in 1¼" and 2½" pitch. *Standard width Corrugated and 5-V Crimp also available.*



Popular stipple-embossed finish. In 4-panel and 6-panel sheets, .024" thickness, widths to cover 24", lengths of 8', 10' and 12'.

Reynolds *Lifetime* Aluminum Weatherboard Siding

The rustproof permanence and heat reflection of aluminum in a form resembling classical clapboard. Can be painted for residential use – very popular unpainted for farm and commercial buildings. Ideal for garages, overhead garage doors, etc.

Reynolds *Lifetime* Aluminum Nails

Rustproof, non-staining, need no deep-setting or puttying. Nearly three times as many nails per pound!

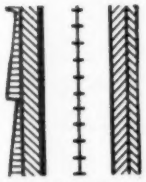
Simplest . . . Quickest . . . Amazingly Effective!

REYNOLDS ALUMINUM REFLECTIVE INSULATION

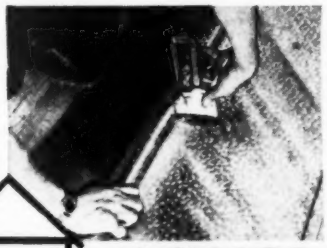
IN CEILINGS
Saves 50% of heat loss here

UNFLOORED ATTIC
1 Layer Type B
AGAINST SUMMER HEAT
U=.11
AGAINST WINTER HEAT
U=.30

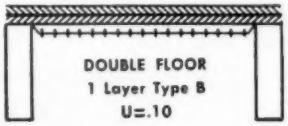
IN WALLS
Saves 50% of heat loss here



WOOD FRAME WALL
1 Layer Type B
U=.13



IN FLOORS
Saves 65% of heat loss here



DOUBLE FLOOR
1 Layer Type B
U=.10

IN ATTICS
Reduces summer temperatures as much as 15°

Efficiency with no awkward bulk . . . at much lower cost than most bulk insulations!

Reynolds Reflective Insulation, a pioneer in the field, is still the simplest. Clean, odorless, non-absorptive. Fire-, wind- and vermin-resistant. Tough, pliable, permanent in position. Outstanding in versatility, high in insulating efficiency; perfect vapor barrier. Easiest, quickest to apply... carry enough for an attic under two arms (two 15-lb. rolls contain 500 sq. ft.!).

Type B—Embossed aluminum foil laminated to two sides of tough kraft paper.
Type C—Embossed aluminum foil on one side of kraft paper.

Reynolds Low-Cost Aluminum Vapor Barrier

available with single or double aluminum facing

REYNOLDS *lifetime* ALUMINUM BUILDING PRODUCTS

New lighter-weight, lower-cost addition to the Reynolds line. Sturdy enough to resist tearing when applied with ordinary caution. Specially developed for big jobs and as a feature in residing and re-roofing.

COMPARISON: Vapor Barrier—.00035 aluminum, 40 lb. kraft paper.
Reflective Insulation—.0005 aluminum, 80 lb. kraft paper.

Reynolds Metals Company, Building Products Division, 2003 S. Ninth Street, Louisville 1, Ky.

Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44 NEW YORK 18 NY
Vita-Var Corp 10 Commerce Ct Newark 2 NJ
Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Wesco Waterpaints Inc Matteson Ill
Wethrill (Geo D) & Co 113 Arch Philadelphia 6 Pa
Wilson-Imperial Co 115 Chestnut Newark 5 NJ
X-Pando Corp 43-15 36th Long Island City 1 NY

FIREPLACE, OUTDOOR & EQUIPMENT

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
BENNETT-IRELAND INC 23 STATE NORWICH NY
Builder's Fireplace & Supply Co 2604 Link Houston Tex
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Grillcraft Co 1487 Summit Av St Paul 5 Minn
Hancock Iron Wks 52 W Pike Pontiac Mich
Industrial Iron Wks Box 4625 Portland 2 Ore
Logan Co 201 Cabel Louisville 6 Ky
MAJESTIC CO HALL ST HUNTINGTON IND
Mexico Refactories Co Love & Cole Mexico Mo
Ohio Stove Co Portsmouth Ohio
Outdoor Oven Fireplace Co 859 Windsor Hartford 1 Conn
Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky
PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY
Silent Glow Oil Burner Corp 1475 Park Hartford Conn
Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill
Vestal Mfg Co Box 152 Sweetwater Tenn
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wiemann (Ernest) Iron Wks 2035 E 11 Tulsa 4 Okla

FIREPLACES, UNITS, METAL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
BENNETT-IRELAND CO 23 STATE NORWICH NY
Builder's Fireplace & Supply Co 2604 Link Houston Tex
Carey Industries 818 E Water Syracuse 3 NY
Condon-King Co 613 8th Av N Seattle 9 Wash
Covert (H W) Co 339 E 48th New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Hearthaire Fireplace Co 3126 Scarborough Rd Cleveland Ohio
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY
LaSalle Prods Inc 193 N Elkhart Elkhart Ind
Lovell Clay Prods Co Lovell Wyo
MAJESTIC CO HALL ST HUNTINGTON IND
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY
READYBUILT PRODS CO 1705-23 MCHENRY BALTIMORE 23 MD
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL
Tristop Damper Co Trussville Ala
Tristop Damper Co 645 W 42nd Seattle 7 Wash

FIREPROOFING COMPOUNDS, WOOD

Acme Flame Control Corp 3051 Rosslyn Los Angeles 65 Cal
Albi Chemical Corp 15 Park Pl New York 7 NY
American Lumber & Treating Co 332 S Michigan Chicago 4 Ill
Camp Chemical Co Inc 1560-62 62nd Brooklyn 19 NY
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
McKeown Bros 5303 S Keeler Av Chicago 32 Ill
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Price Fire & Water Proofing Co Poughkeepsie NY
Sullivan Co 212 E Trigg Memphis 2 Tenn
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich

FITTINGS, ELECTRIC

Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill
Arrow Hart & Hegeman Electric Co 103 Hawthorne Hartford Conn
Benjamin Electric Co Des Plaines Ill
Bryant Electric Co 1421 State Bridgeport 2 Conn
Conduit Pipe Prods Co 157 W Fulton Columbus Ohio
Hilco Engineering Co Genoa City Wis
Hubbell (Harvey) Inc State & Bostwick Av Bridgeport 2 Conn
Merwin Mfg Co 19th & German Erie Pa
Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal

FITTINGS, PLUMBING & HEATING

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
American Radiator & Standard Sanitary Corp Bessemer Bldg Pittsburgh 30 Pa
American Sanitary Mfg Co Abingdon Ill
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Barnes Mfg Co 651 N Main Mansfield Ohio
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH
Case (W A) & Son Mfg Co 38 Main Buffalo NY
Central Brass Mfg Co 4606 Hamilton Cleveland 14 Ohio
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Chicago Faucet Co 2700-22 N Pulaski Rd Chicago 39 Ill
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Dart (E M) Mfg Co Columbus Ohio
Detroit Brass & Malleable Wks 100 S Campbell Detroit 9 Mich
Dick Bros Inc Third & Buttonwood Reading Pa
Division Lead Co 7742 W 61st Pl Summit Ill
Durst Mfg Co 409 Lafayette New York 3 NY
ELJER CO FORD CITY PA
Fanner Mfg Co Brookside Pk Cleveland 9 Ohio
General Fittings Co 123 Georgia Av Providence 5 RI

There's a BESSLER way to do it!

There's an easier, better way to get your home-buyers up into their attics and upper floor areas! It's the BESSLER DISAPPEARING STAIRWAY method. Used for over 40 years in new and old homes of every type. Safety-engineered in every detail. Meets all building codes. Attractively priced! Immediately delivery!

FREE BESSLER CATALOG

Gives complete specifications on 7 Bessler Disappearing Stairway models. Hundreds of thousands in daily use. More sales and service features than any other type. Write now!

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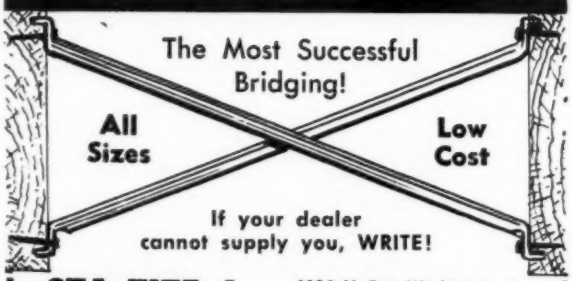
1900-A East Market Street, Akron 5, Ohio

STA-TITE STEEL BRIDGING FOR WOOD JOISTS



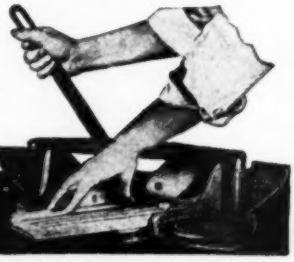
STA-TITE, Inc. 4020 N. Port Washington Ave. Milwaukee 12, Wisconsin
Jobber Inquiries Invited

COST CUTTER

LION UNIVERSAL TRIMMER

Accurate, razor-like cut any way of grain. Quick adjustments to 45 degrees or 90 degrees. Miters, bevels, squares, chamfers—hundreds of uses! A time saver on every job.

WRITE FOR FULL INFORMATION



POOTATUCK CORP.
50 SAMMIS PLACE
STRATFORD CONN

Glauber Brass Kinsman Ohio
Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio
Grand Rapids Brass Co 99 Front Grand Rapids Mich
Harvey Machine Co Inc 19200 S Western Av Torrance Cal
James Mfg Co Fort Atkinson Wis
Keystone Brass & Rubber Co Broad & Lehigh Av Philadelphia 32 Pa
Knights (James) Co Wells & Church Sandwich Ill
KOHLER CO KOHLER WIS
Malleable Iron Fittings Co 21 Thatcher Bradford Conn
McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill
Milwaukee Flush Valve Co 301 E Reservoir Milwaukee 12 Wis
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
National Lead Co 111 Broadway New York 6 NY
National Tube Co Frick Bldg Pittsburgh Pa
Parker (Charles) Co 50 Hanover Meriden Conn
Penberthy Injector Co 1242 Holden Av Detroit 2 Mich
Powell (William) Co Draper & Coombs Sts Cincinnati Ohio
Republic Brass Co 1623 E 45th St Cleveland Ohio
Schaible Co 1086 Summer Cincinnati 4 Ohio
Scovill Mfg Co Waterville Conn
Sherman (H B) Mfg Co 22 Barney Battle Creek Mich
Sloan Valve Co 4300 W Lake Chicago 24 Ill
Speakman Co 30th & Spruce Wilmington Del
THRUSH (H A) CO PERU IND
Trane Co 3rd & Cameron LaCrosse Wis
Trenton Pipe Nipple Co 626 Brunswick Av Box 1234 Trenton NJ
UNIVERSAL-RUNDLE CORP BOX 960 NEW CASTLE PA
Walworth Co 60 E 42nd New York 17 NY
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wolff Mfg Co 2000 W Fulton Chicago Ill
Youngstown Steel Prods Co Youngstown Ohio

FIXTURES, BLACKBOARD

Austral Sales Corp 101 Park Av New York 17 NY

FIXTURES, ELECTRIC INCANDESCENT LIGHT

Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill
Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY
Benjamin Electric Mfg Co Des Plaines Ill
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY
Frink Corp 27-01 Bridge Plaza Long Island City 1 NY
Glasolier Co 923 Penn Av Pittsburgh 22 Pa
Globe Lighting Prods Inc 397 7th Av Brooklyn NY
Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo
Holophane Co Inc 342 Madison Av New York NY
Home-Craft Electronic Prods 3828 N Kedzie Av Chicago 18 Ill
International Lighting Co 6511 Easton Av St Louis 14 Mo
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Kirlin Co 3435 E Jefferson Av Detroit Mich
Kraus (Walter S) Co 48-02 43rd Woodside NY
LaSalle Prods Inc 143 Seneca Buffalo 3 NY
Lightolier Co 346 Claremont Av Jersey City 5 NJ
MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY
Marvin Mfg Co 3171 E 12th Los Angeles 23 Cal
Metallic Arts of New England Inc 243 Broadway Cambridge 39 Mass
Miller Co 200 Center Meriden Conn
Moe Light Fort Atkinson Wis
Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY
Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
Progress Mfg Co Inc Castor Av & Tulip Philadelphia 34 Pa
PRYNE & CO INC 140 N TOWNE POMONA CAL
Pyle-National Co 1334 N Kostner Chicago 51 Ill
Silvray Lighting Inc 1270 Sixth Av New York NY
Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal
Steber Mfg Co Broadview Ill
Swain & Bridge 172 Stanley Av New Britain Conn
Swivelier Co Inc 43-34th Brooklyn NY
Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY
Tuttle & Bailey 1706 Corbin Av New Britain Conn
Virden (John C) Co 6009-6103 Longfellow Cleveland Ohio
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Wheeler Reflector Co 275 Congress Boston Mass

FIXTURES, FLUORESCENT

Alkco Mfg Co 4242 N Lincoln Chicago 18 Ill
Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY
Benjamin Electric Co Des Plaines Ill
Cupples Co 401 S 7th St Louis 2 Mo
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
Day-Brite Lighting Inc 5411 Bulwer Av St Louis 7 Mo
Eagle Electric Mfg Co Inc 23-10 Bridge Plaza S Long Island City 1 NY
Flex-O-Lite Co St Charles Ill
Fluorescent Fabricators Div Easy-Eye Lighting Inc 1825 Chauteau Av St Louis Mo
Fluorescent Lighting Co Monticello NY
Frink Corp 27-01 Bridge Plaza Long Island 1 NY
Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo
Home-Craft Electronic Prods 1208 S Kedzie Av Chicago 23 Ill
Ingram-Richardson Mfg Co 32nd St Beaver Falls PA
International Lighting Co 6511 Easton Av St Louis 14 Mo
Kirlin Co 3435 E Jefferson Av Detroit Mich
Lightmore Appliance Corp 738 Broadway New York 3 NY
Lightolier Co 11 E 36th New York 5 NY
Long (W H) Co 425 N Clark Chicago Ill
MIAMI CABINET DIV CAREY (PHILIP) MFG CO 1950 GRAND AV MIDDLETOWN OHIO
Modern Light & Equipment Co 3812 S Wabash Chicago Ill
Moe Light Fort Atkinson Wis
Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY
Smithcraft Lighting Div Chelsea 50 Mass
Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal
Swivelier Co Inc 43 34th Brooklyn NY
Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY
Virden (John C) Co 6009-6103 Longfellow Cleveland Ohio
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Wheeler Reflector Co 275 Congress Boston Mass
Wiley (R & W) Corp 119 Dearborn Buffalo 7 NY
WIREMOLD CO STATION A HARTFORD 10 CONN

FIXTURES, PLUMBING

Abingdon Potteries Abingdon Ill
ALLIANCEWARE INC BOX 809 ALLIANCE OHIO
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
American Sanitary Mfg Co Abingdon Ill
Berger (Thomas W) Inc 6 E Fourth Cincinnati Ohio
Briggs Plumbingware Co 3001 Miller Av Detroit 11 Mich
Camden Pottery Div Universal-Rundle Corp Camden NJ
Case (W A) & Son Mfg Co 33 Main Buffalo 3 NY
Chicago Pottery Co 1920 N Clybourn Chicago 4 Ill
Clow (James B) & Sons 201-299 N Talman Av Chicago 30 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Douglas (John) Co 71st & BORR Cincinnati Ohio
ELJER CO FORD CITY PA
General Ceramics & Steatite Corp Sanitary Ware Div 21 Crown Mill Rd Keasbey NJ
GERBER PLUMBING FIXTURES 232 N CLARK CHICAGO ILL
Hajoca Corp Philadelphia Pa
Harvey Machine Co Inc 19200 S Western Av Torrance Cal
Humphreys Mfg Co 201 E Fifth Mansfield Ohio
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
KOHLER CO KOHLER WIS
Majestic Mfg Co 4550 Gustine St Louis Mo
Mansfield Sanitary Pottery Co Perrysville Ohio
Maydale (David) Tool Corp Norwich NY
MILWAUKEE FLUSH VALVE CO 301 E RESERVOIR AV MILWAUKEE 12 WIS
MULLINS MFG CO WARREN OHIO
National Plumbing Fixture Corp South Second Elwood City Pa
Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal
Repcal Brass Mfg Co 2109 E 27th Los Angeles Cal
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Schaible Co 1086 Summer Cincinnati 4 Ohio
Sherman (H B) Mfg Co 22 Barney Battle Creek Mich
Shobe & Co Inc Box 179 Mandan ND
Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal
Speakman Co 30th & Spruce Wilmington 99 Del
Strand (Carl A) Co 318 Wabeek Bldg Birmingham Mich
Streamaster Shower Corp 51 E 42nd New York NY
THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL
Trenton Potteries Co 309 N Clinton Av Trenton 1 NJ
US Porcelain Enamel Co 4635 E 52nd Dr Los Angeles 22 Cal
UNIVERSAL-RUNDLE CORP BOX 960 NEW CASTLE PA
WESSELS CO 1625 E EUCLID AV DETROIT 11 MICH
Wilmington Casting Co 258 Charles Wilmington Ohio
Zurn (J A) Mfg Co Erie Pa

FIXTURES, SHOWER

American Brass Mfg Co 1525 E 49th Cleveland Ohio
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Central Brass Mfg Co 4606 Hamilton Cleveland 14 Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
ELJER CO FORD CITY PA
FIAT METAL MFG CO 9301 BELMONT AV FRANKLIN PARK ILL
Harvey Machine Co Inc 19200 S Western Av Torrance Cal
MILWAUKEE FLUSH VALVE CO 301 E RESERVOIR AV MILWAUKEE 12 WIS
Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal
Ravena Metal Prods Co 6518 Ravena Seattle Wash
Sanitary-Dash Co 11th & 44th Rd Long Island City 1 NY
Scovill Mfg Co Waterville Conn
Speakman Co 30th & Spruce Wilmington 99 Del
Streamaster Shower Corp 51 E 42nd New York NY

FIXTURES, STORE LIGHTING

Benjamin Electric Co Des Plaines Ill
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
Kirlin Co 3435 E Jefferson Av Detroit 7 Mich
Lightolier Co 346 Claremont Av Jersey City 5 NJ
Mitchell Mfg Co 2525 N Clybourn Av Chicago 14 Ill
Swivelier Co Inc 43 34th Brooklyn NY
Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY
Wheeler Reflector Co 275 Congress Boston Mass

FIXTURES & MATERIALS, STORE DISPLAY

Abacot Displays 60 E 10th New York 2 NY
Adler-Jones Co 521 S Wabash Chicago 5 Ill
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Alden Mfg Co 201 W Walnut Painesville Ohio
Allied Display Materials Inc 65 Madison Av New York 16 NY
Allied Synthetic Co 4654 De Soto San Diego 9 Cal
American Fixture & Mfg Co St Louis Mo
Barnes Mfg Co 651 N Main Mansfield Ohio
Brainard Industries Inc 152 S 15th Lindenhurst LI NY
Butler (B B) Mfg Co Inc 3150 Randolph Bellwood Ill
Chicago Card Holder Co 732 N Morgan Chicago 26 Ill
Columbus Show Case Co 850 W 5th Columbus Ohio
Commonwealth Plastics Inc Superior Plastics Div 426 N Oakley Blvd Chicago 12 Ill
Curtis Cos Inc American Plywood Div New London Wis
Detroit Show Case Co Detroit Mich
Display Craft Grand Rapids 6 Mich
Erickson (C E) Co Inc 1440 Walnut Des Moines Ia
Equipto Div Aurora Equipment Co Aurora Ill
Formica Co 4514 Spring Grove Av Cincinnati 32 Ohio
Fuller Displays Inc Long Island City NY

Fulton Glass Co Hartford City Ind
Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill
Garrison Wagner Co 2018 Washington Av St Louis 3 Mo
General Die & Stamping Co 266 Mott St New York 13 NY
Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Hirsch (S A) Mfg Co 8051 N Central Pk Skokie Ill
Interlock Metal Units Inc New York NY
Johnswood Co 13833 S Indiana Av Chicago 27 Ill
Ken-Ro-Bil Corp Van Buren Ohio
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Larson (Chas O) Co Ave "G" & C&NW Ry Sterling Ill
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
May-Bilt Inc Frankfort Ky
Metal Decorating & Mfg Co 2021 W Fulton Chicago Ill
Multiplex Display Fixture Co 911-21 N 10th St Louis Mo
National Sawdust Co Brooklyn 11 NY
Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY
Quensell Displays Inc 7123 Austin Forest Hills NY
Reardon Co 7501 Page Av St Louis 14 Mo
Red Devil Tools Coit St Irvington 11 NJ
Reeves (Hurum E) Co Los Angeles Cal
Reflector Hdwe Corp 2245 S Western Chicago 8 Ill
Renco 4372 W Ogden Chicago 23 Ill
Ruslander & Sons Inc 18 Letchfield Buffalo 13 NY
Scheuer Creations Inc 307 W 38th New York 18 NY
Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio
Simplex Store Equipment Inc Grand Rapids 2 Mich
Sitka Spruce Lumber & Mfg Co 2500 Genesee Box 295 Kansas City 8 Mo
Stanford Wood Prods Co Stanford Ky
Stensgaard (W L) & Associates Inc 346 N Justine Chicago Ill
Store Engineering Co Youngstown Ohio
Store Kraft Mfg Co Beatrice Neb
Universal Equipment Co 3401 W Division Chicago Ill
Universal Fixture Corp New York NY
Waddell Co Inc Greenfield Ohio
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn
Warren (J D) Mfg Co Montpelier Ohio
Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa
Wolfe (Harry M) 666 Lake Shore Dr Chicago 11 Ill

FLAGSTONES

COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
Conco Building Prods Inc Box 111 Mendota Ill
Landscape Slate & Roofing Co Inc Poultney Vt
Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn

FLANGES, FLUE

Adams Co Dubuque Iowa
Columbia Pipe Co Columbia SC
Kees (F D) Mfg Co 700 Park Av Beatrice Neb

FLASHING, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Gichner Inc 1900 Kendall NE Washington 2 DC
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
Metal Tile Prods Inc 225 E Walnut Hastings Mich
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
Wells Specialty Co North Liberty Ind

FLASHING, COPPER

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ
Gichner Inc 1900 Kendall NE Washington 2 DC
Hussey (C G) Co 2860 2nd Av Pittsburgh 19 Pa
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Revere Copper & Brass Co 230 Park Av New York 17 NY
Wasco Flashing Co 87 Fawcett Cambridge Mass

FLASHING, METAL, GALVANIZED

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV U S STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Central Prods Co 57 Forest Battle Creek Mich
Cheney Industries 623 Prospect Trenton 5 NJ
Continental Steel Corp Kokomo Ind
Edwards Mfg Co Fifth & Butler Cincinnati 2 Ohio
FLINTKOTE CO INC 30 ROCKEFELLER PLAZA NEW YORK 20 NY
FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA
Gary-Pioneer Steel Corp Gary Ind
Gichner Inc 1900 Kendall NE Washington 2 DC
Illinois Zinc Co 2959 W 47th Chicago 32 Ill
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Minneapolis Builders Supply Co 927 2nd Av Minneapolis 2 Minn
Newport Steel Corp 9th & Lowell Newport Ky
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

FLASHING, PAPER TREATED

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
CAREY (PHILIP) MFG CO LOCKLAND CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Lehon Co 4425 S Oakley Chicago 9 Ill
Protective Papers Inc Union Ill
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

FLOATS, CONCRETE VIBRATING

SYNTRON CO 618 LEXINGTON AV HOMER CITY PA

FLOOR POLISHERS

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
BLACK & DECKER MFG CO TOWSON 4 MD
BRADFORD MACHINE TOOL CO 656-71 EVANS CINCINNATI 4 OHIO
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS TENN
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Dumore Co 1300 17th Racine Wis
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Kent Co Inc 351 Canal Rome NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
MILWAUKEE ELECTRIC TOOL CORP 5318 W STATE MILWAUKEE 8 WIS
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

FLOOR RESURFACERS

Acme Asbestos Covering & Flooring Co 256 N Elizabeth Chicago 7 Ill
Adensite Co 37-19 23rd Long Island City NY
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Camp Co Inc 6958 S State Chicago 21 Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Evercrete Corp 424 W 42nd New York 36 NY
Flash-Stone Co Inc 3723 Pulaski Av Philadelphia 40 Pa
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Monroe Co Inc 10703 Quebec Cleveland 6 Ohio
MOORE (GOODLOE E) CO 2811 N VERMILLION DANVILLE 2 ILL
Reardon Co 7501 Page Av St Louis 14 Mo
Rock-Tred Corp 7440 N St Louis Av Skokie Ill
Roc-Wood Flooring Inc 2268 S Parkway Chicago 16 Ill
Rutland Fire Clay Co Rutland Vt
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Selby Battersby & Co 5235 Whitby Av Philadelphia 43 Pa
Smooth-On Mfg Co 568-74 Communipaw Av Jersey City 4 NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa
Sullivan Co 212 E Trigg Box 2606 Memphis 2 Tenn
Surface Protection Co 16799 Euclid Cleveland 12 Ohio
Tamms Industries Inc 228 N LaSalle Chicago Ill
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
Vita Var Corp 10 Commerce Ct Newark NJ
Wilson-Imperial Co 115 Chestnut Newark 5 NJ

FLOOR WAXERS, ELECTRIC

Algoma Mfg Co Box 252 Algoma Wis
AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR AV TOLEDO 3 OHIO
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
Boyle-Midway Inc 22 E 40th New York 16 NY
Camp Co Inc 6958 S State Chicago 21 Ill
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
General Floorcraft Inc 421 Hudson New York 14 NY
Hild Floor Machine Co 740 W Washington Chicago 7 Ill

Hilger Co 1209 St Germain St Cloud Minn
HOLT MFG CO 651 20TH OAKLAND 12 CAL
Johnson (S C) & Son Inc 1525 Howe Racine Wis
Kent Co Inc 351 Canal Rome NY
Landers, Frary & Clark Center St New Britain Conn
Lincoln-Schlueter Floor Machine Co 1250 W Van Buren Chicago Ill
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Twin-Brush Corp Clarksville Tenn

FLOORING, BLOCK

Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Cincinnati Floor Co Eastern & Linwood Av Cincinnati 26 Ohio
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Cromar Co Susquehanna St Williamsport Pa
Evans Hardwood Flooring Co 3900 Shanto St Louis Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Harris Mfg Co Grover at Walnut Johnson City Tenn
HIGGINS INC BOX 8001 NEW ORLEANS LA
Holt Hardwood Co DeWitt St Oconto Wis
Hurtsboro Oak Flooring Co Inc Hurtsboro Ala
Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn
Miller Bros Co Box 540 Johnson City Tenn
Nickey Bros Inc 2700 Summer Av Memphis Tenn
North Branch Flooring Co 2415 W Barry Av Chicago Ill
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Ritter (W M) Lumber Co Columbus Ohio
Robbins Flooring Co Reed City Mich
Stuart Lumber Corp Stuart 10 Va
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Wells (J W) Lumber Co Menominee Mich
Yawkey-Bissell Hardwood Flooring Co White Lake Wis

FLOORING, CORK

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Cork Insulation Co Inc 730 5th Av New York City 19 NY
Dodge Cork Co Inc 664 Manor Lancaster Pa
KENTILE INC 58 SECOND AV BROOKLYN 15 NY

FLOORING, FIR

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Agnew Lumber Co Centralia Wash
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Canadian Western Lumber Co Ltd 15 King Edward Av New Westminster BC Canada
Giustina Bros Lumber Co Eugene Ore
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Oregon-American Lumber Corp Veronia Ore
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

FLOORING, HARDWOOD, BEECH

Anderson-Tully Co Box 28 Memphis Tenn
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Atlanta Oak Flooring Co Atlanta 1 Ga
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn
Clarke County Lumber Mills Thomasville Ala
Cook (F C) & Co 1208-13 Munsey Bldg Baltimore Md
Cotton & Hanlon Odessa NY
CROSSETT LUMBER CO CROSSETT ARK
DeSoto Hardwood Flooring Co 977 Sledge Av Memphis Tenn
Emporium Forestry Co Conifer NY
Evans Hardwood Flooring Co 3900 Shanto St Louis Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farrin (M B) Lumber Co Spring Grove & Sta Av Cincinnati 32 Ohio
Fordyce-Crossett Lbr Co Fordyce Ark
Frost Hardwood Floors Inc Shreveport La
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Hardwood Corp of America Box 1091 Asheville NC
Harris Mfg Co Grover at Walnut Johnson City Tenn
Holt Hardwood Co DeWitt St Oconto Wis
Kenova Hardwood Flooring Co Kenova W Va
Leathers (A H) Mfg Co Dickson Tenn
LONG-BELL LUMBER CO 926 GRAND AV KANSAS CITY 6 MO
Marsh Lumber Co Dover Ohio
McMinnville Mfg Co Box 151 McMinnville Tenn
Meadow River Lumber Co Rainelle W Va
Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn
Merit Oak Flooring Co 4530 Georgia Rd Birmingham Ala
Miller Bros Co Box 540 Johnson City Tenn
Miller & Co Inc Selma Ala
Mobile River Saw Mill Co Mt Vernon Ala
Monterey Hardwood Flooring Co Monterey Tenn
Mower Lumber Co Charleston W Va
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Owen (R C) Co Hopkinsville Ky
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips-Rhyne Lumber Co Inc Box 699 Brookhaven Miss
Robbins Flooring Co Reed City Mich
Rose (D M) & Co Rose Pl Knoxville 4 Tenn
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Southern Lumber Co Warren Ark
Stuart Lumber Corp Stuart 10 Va
Texoak Flooring Co Crockett Tex
Tibbals Flooring Co Oneida Tenn
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo
Wells (J W) Lumber Co Menominee Mich
Williams & Voris Hardwood Co Jackson Miss
Wood-Mosaic Co Inc Louisville 9 Ky

FLOORING, HARDWOOD, BIRCH

Atlanta Oak Flooring Co Atlanta 1 Ga
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Clarke County Lumber Mills Thomasville Ala
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Cotton & Hanlon Odessa NY
Emporium Forestry Co Conifer NY
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati 32 Ohio
Georgia-Pacific Plywood & Lumber Co Augusta Ga
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Hardwood Corp of America Box 1091 Asheville NC
Holt Hardwood Co DeWitt St Oconto Wis
Horner Flooring Co Box 104 Dollar Bay Mich
Meadow River Lumber Co Rainelle W Va
Miller Bros Co Box 540 Johnson City Tenn
Mower Lumber Co Charleston W Va
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips-Rhyne Lumber Co Box 699 Brookhaven Miss
Robbins Flooring Co Reed City Mich
Schreiber (William C) Lumber Co 2271 S Lumber Chicago 16 Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Wells (J W) Lumber Co Menominee Mich
Wood-Mosaic Co Inc Louisville 9 Ky

FLOORING, HARDWOOD, FIBER

Roc Wood Flooring Inc 2268 S Parkway Chicago 16 Ill

FLOORING, HARDWOOD, MAPLE

Atlanta Oak Flooring Co Atlanta 1 Ga
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Barger (P M) Lumber Co Statesville NC
Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn
Clarke County Lumber Mills Thomasville Ala
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Cook (F C) & Co 1208-13 Munsey Bldg Baltimore 2 Md
Cotton & Hanlon Odessa NY
Cromar Co Susquehanna St Williamsport Pa
Emporium Forestry Co Conifer NY
Evans Hardwood Flooring Co 3900 Shanto St Louis Mo
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati 32 Ohio
Ferguson (W T) Lumber Co 8th & Pine St Louis 1 Mo
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Hardwood Corp of America Box 1091 Asheville NC
Harris Mfg Co Grover at Walnut Johnson City Tenn
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Holt Hardwood Co DeWitt St Oconto Wis
Horner Flooring Co Box 104 Dollar Bay Mich
Lightsey Bros Miley SC
Marsh Lumber Co Dover Ohio
McMinnville Mfg Co Box 151 McMinnville Tenn
Meadow River Lumber Co Rainelle W Va
Miller Bros Co Box 540 Johnson City Tenn
Monterey Hardwood Flooring Co Monterey Tenn
Mower Lumber Co Charleston W Va
Nickey Bros Inc 2700 Summer Av Memphis Tenn
North Branch Flooring Co 2415 W Barry Av Chicago Ill
Owen (R C) Co Hopkinsville Ky
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips-Rhyne Lumber Co Inc Box 699 Brookhaven Miss
Robbins Flooring Co Reed City Mich
Rose (D M) & Co Rose Pl Knoxville 4 Tenn
Schreiber (William C) Lumber Co 2271 S Lumber Chicago 16 Ill
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Stuart Lumber Corp Stuart 10 Va
Tibbals Flooring Co Oneida Tenn
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo
Wells (J W) Lumber Co Menominee Mich
Wells (J W) Lumber Co of Ala Montgomery Ala
Williams & Voris Hardwood Co Jackson Miss
Wood-Mosaic Co Inc Louisville 9 Ky
Yawkey-Bissell Hardwood Flooring Co White Lake Wis

FLOORING, HARDWOOD, OAK

Anderson-Tully Co Box 28 Memphis Tenn
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Atlanta Oak Flooring Co Atlanta 1 Ga
Atlantic Lumber Co 88 Broad Boston 4 Mass
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Barger (P M) Lumber Co Statesville NC
Barnes Lumber Corp Charlottesville Va
Boydton Mfg Co Boydton Va
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Caromiss Lumber Co Summerville SC
Carpenter Oak Flooring Co & Hightower Box & Tank Co 906 N 40th Box 1449 Birmingham Ala
Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn
Chapman & Dewey Lumber Co Memphis Tenn
Clarke County Lumber Mills Thomasville Ala
CLOUD OAK FLOORING CO 1916 N WELLER SPRINGFIELD MO
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Cook (A B) Co Malvern Ark
Cook (F C) & Co 1208-13 Munsey Bldg Baltimore 2 Md
Cotton & Hanlon Odessa NY
Cromar Co Susquehanna St Williamsport Pa
CROSSETT LUMBER CO CROSSETT ARK
DeSoto Hardwood Flooring Co 977 Sledge Av Memphis Tenn
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Edens-Birch Lumber Co Corrigan Tex
Emporium Forestry Co Conifer NY
Evans Hardwood Flooring Co 2900 Shanto St Louis Mo
Exchange Sawmills Sales Co R A Long Bldg Kansas City 6 Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio
Ferguson (W T) Lumber Co 8th & Pine St Louis 1 Mo
Fordyce-Crossett Lumber Co Fordyce Ark

Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Green Lumber Co Inc Magnolia St Laurel Miss
Hallett Mfg Co Inc Mobile 2 Ala
Hardwood Corp of America Box 1091 Asheville NC
Harris Mfg Co Grover at Walnut Johnson City Tenn
HIGGINS INC BOX 8001 NEW ORLEANS LA
Holt Hardwood Co DeWitt St Oconto Wis
Hurtsboro Oak Flooring Co Inc Hurtsboro Ala
Industrial Lumber Co Little Rock Ark
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
Lanham Hardwood Flooring Co 12th & Magnolia Louisville 10 Ky
Lancaster Corp Fort Worth 11 Tex
Leathers (A H) Mfg Co Dickson Tenn
Lightsey Bros Miley SC
LONG-BELL LUMBER CO 926 GRAND AV KANSAS CITY 6 MO
Marsh Lumber Co Dover Ohio
McMinnville Mfg Co Box 151 McMinnville Tenn
Meadow River Lumber Co Rainelle W Va
Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn
Merit Oak Flooring Co 4530 Georgia Rd Birmingham Ala
Miller & Co Inc Selma Ala
Miller Bros Co Box 540 Johnson City Tenn
Mobile River Saw Mill Co Mt Vernon Ala
Monterey Hardwood Flooring Co Monterey Tenn
Mower Lumber Co Charleston W Va
Nickey Bros Inc 2700 Summer Av Memphis Tenn
North Branch Flooring Co 2415 W Barry Av Chicago Ill
Owen (R C) Co Hopkinsville Ky
Ozark Oak Flooring Co Bismarck Mo
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips-Rhyne Lumber Co Box 699 Brookhaven Miss
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss
Robbins Flooring Co Reed City Mich
Rose (D M) & Co Rose Pl Knoxville 4 Tenn
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Scotch Lumber Co Fulton Ala
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Southern Lumber Co Warren Ark
Southern Pine Lumber Co Diboll Tex
Southern Pine Lumber Co Texarkana Tex
Stewart (E A) Lumber Co Inc Box 1777 Texarkana Tex
Stuart Lumber Corp Stuart 10 Va
Texoak Flooring Co Crockett Tex
Tibbals Flooring Co Oneida Tenn
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo
Wells (J W) Lumber Co Menominee Mich
Wells (J W) Lumber Co Ala Montgomery Ala
Westcott (J D) & Son Williamson W Va
Williams (J L) & Sons Sheridan Ark
Williams & Voris Hardwood Co Jackson Miss
Wood-Mosaic Co Inc Louisville 9 Ky
Yawkey-Bissell Hardwood Flooring Co White Lake Wis

FLOORING, HARDWOOD, PECAN

Anderson-Tully Co Box 28 Memphis Tenn
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Bradley Lumber Co of Ark Warren Ark
Clarke County Lumber Mills Thomasville Ala
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Hallett Mfg Co Mobile 2 Ala
Industrial Lumber Co Little Rock Ark
Meadow River Lumber Co Rainelle W Va
Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn
Miller & Co Inc Selma Ala
Mobile River Saw Mill Co Mt Vernon Ala
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Phillips-Rhyne Lumber Co Box 699 Brookhaven Miss
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Southern Lumber Co Warren Ark
Texoak Flooring Co Crockett Tex
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

FLOORING, HARDWOOD, PRE-FINISHED

Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Cincinnati Floor Co 4775 Eastern Av Cincinnati 26 Ohio
Cromar Co Susquehanna St Williamsport Pa
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
HIGGINS INC BOX 8001 NEW ORLEANS LA
Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn
Memphis Oak Flooring Co Memphis Tenn
Parkay Inc 5000 Crittenden Dr Louisville 9 Ky
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Southern Lumber Co Warren Ark
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

FLOORING, MARBLE

Vermont Marble Co Proctor Vt

FLOORING, PARQUETRY

Barger (P M) Lumber Co Statesville NC
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Cromar Co Susquehanna St Williamsport Pa
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Harris Mfg Co Grover at Walnut Johnson City Tenn
HIGGINS INC BOX 8001 NEW ORLEANS LA
Parkay Inc 5000 Crittenden Dr Louisville 9 Ky
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Pearson Hardwood Flooring Co Oneida Tenn
Robbins Flooring Co Reed City Mich
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Stuart Lumber Co Stuart 10 Va
Texoak Flooring Co Crockett Tex
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va

FLOORING, PINE

Anderson-Tully Co Box 28 Memphis Tenn
Argent Lumber Co Hardeeville SC
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Barger (P M) Lumber Co Statesville NC
Barnes Lumber Corp Charlottesville Va
Bradley Lumber Co of Ark Warren Ark
Brooks-Scanlon Inc Bend Ore
Clarke County Lumber Mills Thomasville Ala
Cotton & Hanlon Odessa NY
CROSSETT LUMBER CO CROSSETT ARK
Dargen Lumber Mfg Co Conway SC
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Emporium Forestry Co Conifer NY
Exchange Sawmills Sales Co R A Long Bldg Kansas City 6 Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Ferguson (W T) Lumber Co 8th & Pine St Louis 1 Mo
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Hardwood Floors Inc Shreveport La
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Green Lumber Co Magnolia St Laurel Miss
Hallett Mfg Co Inc Mobile 2 Ala
Hurtsboro Oak Flooring Co Inc Hurtsboro Ala
Lightsey Bros Miley SC
LONG-BELL LUMBER CO 926 GRAND AV KANSAS CITY 6 MO
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Miller & Co Inc Selma Ala
Phillips-Rhyne Lumber Co Box 699 Brookha en Miss
Scoten Lumber Co Fulton Ala
Southern Lumber Co Warren Ark
Veach-May-Wilson Co Alcoa Tenn

FLOORING, PLANK

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Anderson-Tully Co Box 28 Memphis Tenn
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Atlanta Oak Flooring Co Atlanta 1 Ga
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Cincinnati Floor Co 4775 Eastern Av Cincinnati 26 Ohio
CLOUD OAK FLOORING CO 1916 N WELLER SPRINGFIELD MO
Cotton & Hanlon Odessa NY
DeSoto Hardwood Flooring Co 977 Sledge Av Memphis Tenn
Evans Hardwood Flooring Co 3900 Shanto St Louis Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio
Frost Hardwood Floors Inc Shreveport La
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Harris Mfg Co Grover at Walnut Johnson City Tenn
Holt Hardwood Co DeWitt St Oconto Wis
Marsh Lumber Co Dover Ohio
McMinnville Mfg Co Box 151 McMinnville Tenn
Meadow River Lumber Co Rainelle W Va
Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn
Miller Bros Co Box 540 Johnson City Tenn
Nickey Bros Inc 2700 Summer Av Memphis Tenn
North Branch Flooring Co 2415 W Barry Av Chicago Ill
Owen (R C) Co Hopkinsville Ky
Parkay Inc 5000 Crittenden Dr Louisville 9 Ky
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Rose (D M) & Co Rose Pl Knoxville 4 Tenn
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Texoak Flooring Co Crockett Tex
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va
Wells (J W) Lumber Co Menominee Mich

FLOORING, RUBBER

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Camp Co Inc 6958 S State Chicago 21 Ill
Flash-Stone Co Inc 3723 Pulaski Av Philadelphia 40 Pa
Forman-Ford & Co 111 E Second Minneapolis Minn
Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass
GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON 16 OHIO
RCA Rubber Co 1833 E Market Akron 5 Ohio
Robbins Floor Prods Inc Tuscumbia Ala
Twin City Hardwood Lumber Co 509 E Cleveland Av St Paul 14 Minn
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

FLOORING, STEEL

Acme Steel Co 2840 Archer Av Chicago 8 Ill
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Dravo Corp Dravo Bldg Fifth & Liberty Aves Pittsburgh 22 Pa
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Inland Steel Co 38 S Dearborn Chicago 3 Ill
Jones & Laughlin Steel Co 3 Gateway Center Pittsburgh 30 Pa
Mahon (R C) Co Box 4666 Detroit 34 Mich
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

FLOORING, SUB-COMPOSITE

American Mason Safety Tread Co 125 Perry Lowell Mass
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Camp Co Inc 6958 S State Chicago 21 Ill

FLOORING UNDERLAYMENT

Acme Asbestos Covering & Flooring Co 239 N Elizabeth Chicago 7 Ill
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Camp Co Inc 6958 S State Chicago 21 Ill
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Consumers Clue Co 1515 N Hadley St Louis 6 Mo
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forest Fiber Prods Corp Box 68 Forest Grove Ore
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Masonite Corp 111 W Washington Chicago 2 Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
National Plywoods Inc 2710 Throop Chicago Ill
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Pioneer Latex & Chemical Co Inc Lincoln Blvd Middlesex NJ
Plaswood Corp 18263 Hartwell Detroit 35 Mich
Plytex Corp 1731 Elston Av Chicago 22 Ill
Protective Papers Inc Union Ill
Selby Battersby & Co 5235 Whitby Av Philadelphia 43 Pa
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
SOUTHERN PLASWOOD CORP BOX 123 HOPE ARK
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
UNITED STATES GYSPUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

FLOORS & CEILINGS, PRE-CAST, CONCRETE UNIT

Alabama Cement Tile Co 300 S 41st Birmingham 1 Ala
Flexicore Co Inc 1932 E Monument Av Box 825 Dayton 1 Ohio
Permacrete Prods Corp 1839 S Wall Columbus 7 Ohio
Porete Mfg Co Porete Av North Arlington NJ
Price Bros Co 1932 E Monument Av Dayton 1 Ohio

FLOWER BOXES

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Artcrete Prods Co Eagle & Lawrence Rds Oakmont Havertown Pa
COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
LEIGH BLDG PRODS DIV AIR CONTROL PRODS GLADE AT LARCH COOPERSVILLE MICH
Metal Prods Co Wolfe & Jackson Fredericksburg Va
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill

FLUES, ASBESTOS-CEMENT

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY

FLUES & CHIMNEYS PREFABRICATED

American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsubrgh 6 Pa
Chimney Sales Corp Box 146 Fredericksburg Va
CONDENSATION ENGINEERING CORP 3511 W POTOMAC CHICAGO 51 ILL
GENERAL PRODS CO BOX 661 FREDERICKSBURG VA

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GENERAL PRODUCTS CO. INC. Fredericksburg, Virginia

Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
International Oil Burner Co 3800 Park Av St Louis 10 Mo
MAJESTIC CO HALL ST HUNTINGTON IND
METALBESTOS DIV WALLACE (W M) CO BELMONT CAL
RUSSELL REINFORCED PLASTICS CORP 8 S 12TH LINDENHURST LI NY
VAN-PACKER CORP 209 S LASALLE CHICAGO 4 ILL

FOUNTAINS, DRINKING

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Dobbins Mfg Co 702 E Beardsley Elkhart Ind
Ebco Mfg Co 401 W Town Columbus 8 Ohio
ELJER CO FORD CITY PA
Haws Drinking Faucet Co 4th & Page Berkeley 10 Cal
KOHLER CO KOHLER WIS
Murdock Mfg & Supply Co 426-30 Plum Cincinnati 2 Ohio
Taylor (Halsey W) Co 1259 N Park Av Warren Ohio

FRAMES, DOOR & WINDOW, METAL

Adams Co Box 268 Dubuque Iowa
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Steel Door Co 6445 E Hildale Detroit 34 Mich
AMERICAN WELDING & MFG CO 190 DIETZ RD WARREN OHIO
Bayley (William) Co 1200 Warder Springfield Ohio
BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Copco Steel & Engineering Co 14035 Grand River Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Diebold Inc 818 Mulberry Rd SE Canton 2 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
International Fireproof Door Co 76 Lexington Ave Brooklyn 5 NY
International Steel Co 1321 Edgar Evansville 7 Ind
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Mesker Bros Iron Co 4330 Geraldine St Louis 2 Mo
Metal Crafters E Av at 18th NE Cedar Rapids Iowa
National Kalamein Co Inc 418 Lexington Av Brooklyn 21 NY
ONE-DER FRAME CORP 1232 N 37TH PL BOX 3068 BIRMINGHAM 3 ALA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Richmond Fireproof Door Co Box 334 Richmond Ind
Schacht Associates Inc 1175 E 156th New York 59 NY
Soule Steel Co 1750 Army San Francisco 24 Cal
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
Sterling Windows Inc 369 Lexington New York NY
Truline Developments 9155 Sunset Blvd West Hollywood 46 Cal
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STEEL FABRICATORS INC 333 GASCHE WOOSTER OHIO
Virginia Metal Prods Inc Dept A-44 Orange Va
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Wenzel Mfg Co Stamford Conn
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa

FRAMES, DOOR, WOOD

American Sash & Door Co 16th & Bellfontaine Kansas City 1 Mo
ANDERSEN CORP BAYPORT MINN
Biles-Coleman Lumber Co Omak Wash
Bradley Lumber Co of Ark Warren Ark
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2657 Memphis 2 Tenn
CROSSETT LUMBER CO CROSSETT ARK
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Deer Park Pine Industry Inc Deer Park Wash
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Farley & Loetscher Mfg Co Dubuque Iowa
Fordyce-Crossett Lumber Co Fordyce Ark
General Panel Corp 1101 W Victory Blvd Burbank Cal
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hoosier Sash & Door Co Anderson Ind
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
Keystone Frame & Mfg Co Box 873 Spokane Wash
Kinzua Pine Mills Co Kinzua Ore
Lockwood Wood Prods Box 338 Beaverton Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
MALTA MFG CO 35 ELLIOTT MALTA OHIO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Northern Sash & Door Co Hawkins Wis
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Quigley (J R) Co Gloucester City NJ
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Silerest Co 100 Thomas Wausau Wis
Southern Lumber Co Warren Ark
Southern Mill & Mfg Co Tulsa Okla
Spokane Pine Prods Co 348 N Wall Spokane Wash
Templeton (Herbert A) Lumber Co Portland 5 Ore
Walker (T V) & Son Inc 217 N Lake Box 547 Burbank Cal
Walled Lake Door Co Walled Lake Mich
Washington Mfg Co Tacoma 1 Wash
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN
Woodward Lumber Co Cottage Grove Ore

FRAMES, METAL FOR STRUCTURAL GLASS

Alden Mfg Co 201 W Walnut Painesville Ohio
Dusing & Hunt Inc 1927 Elmwood Av Buffalo 7 NY
KAWNEER CO 1105 N FRONT NILES MICH
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sterling Windows Inc 369 Lexington Av New York 17 NY

FRAMES, SINK WELL

Alden Mfg Co 201 W Walnut Painesville Ohio
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH
Decorite Inc 2115 Peachtree Rd Atlanta Ga
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

National Guard Prods 757 Madison Memphis 7 Tenn
Selek (Walter E) & Co 223 W Hubbard Chicago 11 Ill
Trimedge Inc 4021 Mahoning Av Youngstown Ohio
Werner (R D) Co 295 5th Av New York 16 NY
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

FRAMES, WINDOW, WOOD

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
ANDERSEN CORP BAYPORT MINN
Biles-Coleman Lumber Co Inc Omak Wash
Bradley Miller & Co Bay City Mich
Brown-Graves Co 191 E Miller Av Akron 1 Ohio
Burke Millwork Co Fremont Bridge Seattle 3 Wash
Cameron (Wm) & Co Drawer 1069 Waco Tex
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Cole Mfg Co Box 2657 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Deer Park Pine Industry Inc Deer Park Wash
Diamond Match Co Chico Cal
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Fabrow Mfg Inc 7208 Douglas Rd Toledo Ohio
Farley & Loetscher Mfg Co Dubuque Iowa
Frost Lumber Industries Drawer 1125 Shreveport 90 La
General Woodcraft Co 3323 Paterson Plank Rd North Bergen NJ
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
Keystone Frame & Mfg Co Box 873 Spokane 3 Wash
Kinzua Pine Mills Co Kinzua Ore
Lockwood Wood Prods Box 338 Beaverton Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MALTA MFG CO 35 ELLIOTT MALTA OHIO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Missoula White Pine Sash Co Scott & Stoddard Missoula Mont
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
National Screen Co Inc Madison Av Extended Suffolk Va
National Screen Door Co Box 1887 Montgomery 3 Ala
Northern Sash & Door Co Hawkins Wis
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phillips-Rhyne Lumber Co Inc Box 699 Brookhaven Miss
Quigley (J R) Co Gloucester City NJ
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
R.O.W. SALES CO 1365 ACADEMY FERNDALE MICH
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Silerest Co 100 Thomas Wausau Wis
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa
Spokane Pine Prods Co 348 N Wall Spokane Wash
Spokane Sash & Door Co Spokane Wash
Western Pine Mfg Co 315 E Jackson Spokane 7 Wash
White Pine Sash Co 4005 E Broadway Spokane Wash

FRAMING, STEEL

American Bridge Div US Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
Bethlehem Steel Co 701 E Third Bethlehem Pa
Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Decatur Iron & Steel Co 2nd St W Decatur Ala
Fries & Son Steel Construction & Engineering Co Covington Ky
Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Steel Co 1321 Edgar Evansville 7 Ind
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
Laclede Steel Co Arcade Bldg St Louis Mo
Macomber Inc 1925 Tenth Canton Ohio
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Republic Steel Corp Republic Bldg Canton Ohio
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Stran-Steel Div Great Lakes Steel Corp Ecorse 29 Mich
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Unistrut Prods Co 1013 W Washington Chicago 7 Ill
UNITED STEEL FABRICATORS INC 333 GASCHE WOOSTER OHIO
Wheeling Corrugating Co Wheeling W Va

FRONTS, STORE

BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX
Brasco Mfg Co 152nd & Commercial Av Harvey Ill
Davidson Enamel Prods Inc 800 E Kibby Lima Ohio
Fentron Industries Inc 2801 Market Seattle 7 Wash
General Porcelain Enameling & Mfg Co 2700 N Karlov Av Chicago 39 Ill
Ingram-Richardson Mfg Co Co 32nd St Beaver Falls Pa
KAWNEER CO 1105 N FRONT NILES MICH
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO
Natcor Inc 15 Fourth Taunton Mass
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rigidized Metals Corp 687 Ohio Buffalo 3 NY

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Variety Mfg & Eng Co 810 W Fulton Chicago 7 Ill
Wolverine Porcelain Enameling Co 3350 Scotten Av Detroit 10 Mich

FUNGICIDES

American Cyanamid Co 30 Rockefeller Plaza New York 20 NY
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal
Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Central Chemical Corp Hagerstown Md
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN
Dow Chemical Co 1000 Main Midland Mich
General Chemical Div Allied Chemical & Dye Corp 40 Rector New York NY
Hammond Paint & Chemical Co 3312 Railroad Av Beacon NY
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Oakite Prods Inc 19 Rector New York 6 NY
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

FURNACE, PIPE & FITTINGS

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Badger Corrugating Co 1901-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Cincinnati Sheet Metal & Roofing Co 226 E Front Cincinnati 2 Ohio
Clayton & Lambert Mfg Co 1701 Dixie Hwy Louisville 10 Ky
Henry Furnace Co Medina Ohio
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Jettronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa
Krauser-Boyd Inc 533 River Rd North Tonawanda NY
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
Lyon Conklin & Co Inc Race & McComas Baltimore 30 Md
MAJESTIC CO HALL ST HUNTINGTON IND
METALBESTOS DIV WALLACE (WM) CO BELMONT CAL
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
Sioux Steel Co Sioux Falls SD
United States Register Co 344 E Burnham Battle Creek Mich
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn
Wheeling Corrugating Co Wheeling W Va
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

FURNACES, CHIMNEY

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
MAJESTIC CO HALL ST HUNTINGTON IND

FURNACES, COAL

American Foundry & Furnace Co 125 N McClun Bloomington Ill
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Cleveland Steel Prods Co Torid-Heet Div 15801 Brookpark Rd Cleveland 11 Ohio
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Dowagiac Steel Furnace Co Dowagiac Mich
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
General Machine Co Inc 4th & Furnace Emmaus Pa
Green Colonial Furnace Co 316 SW 3rd Des Moines Iowa
Henry Furnace Co Medina Ohio
Hess Co 1855 S 54th Av Cicero Ill
Holland Furnace Co Holland Mich
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
International Heater Co 101 Park Av Utica NY
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
Krauser-Boyd Inc 553 River Rd North Tonawanda NY
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
MAJESTIC CO HALL ST HUNTINGTON IND
Meyer Furnace Co 1300 S Washington Peoria Ill
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee Wis
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Rybolt Heater Co 615 Miller Ashland Ohio
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
Thatcher Furnace Co Center St Garwood NJ
UNITED STATES RADIATOR CORP BUHL BLDG DETROIT 31 MICH
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Wheeling Furnace Corp Martins Ferry Ohio
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO
Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

FURNACES, CONVERTIBLE, COAL, OIL OR GAS

American Foundry & Furnace Co 125 N McClun Bloomington Ill
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
Henry Furnace Co Medina Ohio
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
International Heater Co 101 Park Av Utica 2 NY
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
Jettronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa
Meyer Furnace Co 1300 S Washington Peoria Ill
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

FURNACES, COUNTERFLOW UNITS

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
Auburn Foundry Co Inc Dallas & 11th Auburn Ind
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Century Engineering Corp 401 Third SE Cedar Rapids Iowa
Conco Engineering Wks Div H D Conkey Co 1940 Thomas Mendota Ill
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Delta Heating Corp 1 Cole Trenton 8 NJ
Dowagiac Steel Furnace Co Dowagiac Mich
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
Henry Furnace Co Medina Ohio
Hess Co 1855 S 54th Av Cicero Ill
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
International Heater Co 101 Park Av Utica NY
International Oil Burner Co 3800 Park Av St Louis 10 Mo
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa
Lennox Furnace Co 200 S 12th Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
Meyer Furnace Co 1300 S Washington Peoria Ill
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Patten (J V) Co 550 DeKalb Av Sycamore Ill
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Royal Jet Inc 1024 Westminster Alhambra Cal
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO W

FURNACES, FLOOR

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO
Cavalier Corp Chattanooga Tenn
Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS
Delta Heating Corp 1 Cole Trenton 8 NJ
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL
Evans Prods Co 13101 Eckles Rd Plymouth Mich
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich
Glenwood Range Co 300 W Water Taunton Mass
Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal
Hotstream Heater Co 2363 E 69th Cleveland Ohio
Hunt Heater Corp 220 12th Av N Nashville Tenn
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
King Stove & Range Co Sheffield Ala
Kresky Mfg Co 2nd & "H" Petaluma Cal
Kresno-Stamm Mfg Corp 400 Commercial Av Palisades Park NJ
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Palmer Mfg Co 2200 W Fillmore Phoenix Ariz
Payne Furnace Co 338 N Foothill Blvd Beverly Hills Cal
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO
Premier Furnace Co Box 150 Dowagiac Mich
Preway Inc 1430 Second N Wisconsin Rapids Wis
Quaker Mfg Co 1147 Merchandise Mart Chicago Ill
Queen Stove Wks 505 Front Albert Lea Minn
RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY
Rudy Furnace Co Dowagiac Mich
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
TEMCO INC 4104 PARK AV NASHVILLE 9 TENN
Tennessee Enamel Mfg Co 4104 Park Av Nashville Tenn
US Machine Corp Lebanon Ind
Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal

Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Zink (John) Co 4401 S Peoria Tulsa 1 Okla

FURNACES, FORCED AIR

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
Auburn Foundry Co Inc Dallas & 11th Auburn Ind
Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bard Mfg Co Bryan Ohio
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Cleveland Steel Prods Co ToridHeet Div 15801 Brookpark Rd Cleveland 11 Ohio
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
Conco Engineering Wks Div Conkey (H D) Co 1940 Thomas Mendota Ill
Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Delta Heating Corp 1 Cole Trenton 8 NJ
Electric Furnace-Man Inc Emmaus Pa
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
International Heater Co 101 Park Av Utica NY
International Oil Burner Co 3800 Park Av St Louis 10 Mo
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
MAJESTIC CO HALL ST HUNTINGTON IND
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Patten (J V) Co 550 DeKalb Av Sycamore Ill
Premier Furnace Co Box 150 Dowagiac Mich
REZNOR MFG CO DAVID ST MERCER PA
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY
Royal Jet Inc 1024 Westminster Alhambra Cal
Rybolt Heater Co 615 Miller Ashland Ohio
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio

AMERICAN-Standard
SUNBEAM
Warm Air Heating

• Line covers gravity and forced warm air furnaces for every fuel and for every residential application, including horizontal and counterflow units for utility room, closet, alcove, attic and under-the-floor installation.

Contact our District Representatives or see your local Sunbeam Distributor or Dealer

SUNBEAM AIR CONDITIONER DIVISION
American Radiator & Standard Sanitary Corporation
Bessemer Building, Pittsburgh 22, Pa.

Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

FURNACES, GAS-FIRED

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
American Foundry & Furnace Co 135 N McClun Bloomington Ill
American Gas Machine Co 505 Front Albert Lea Minn
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
Badger Corrugating Co 1801 - 39 West Av S LaCrosse Wis
Bard Mfg Co Bryan Ohio
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa
Cleveland Steel Prods Co ToridHeet Div 15801 Brookpark Rd Cleveland 11 Ohio
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
Conco Engineering Wks Div Conkey (H D) Co 1940 Thomas Mendota Ill
Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Delta Heating Corp 1 Cole Trenton 8 NJ
Dowagiac Steel Furnace Co Dowagiac Mich
Dravo Corp Fifth & Liberty Avs Dravo Bldg Pittsburgh 22 Pa
DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md
Forest City Foundries Inc 2500 W 27th Cleveland Ohio
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich
Green Colonial Furnace Co 316 SW 3rd Des Moines Iowa
Hart Heat Div Avery Farm Machinery Co 2006 S Washington Peoria Ill
Harvey-Whipple Inc 55 Emery Springfield Mass
Heil Co 3000 W Montana Milwaukee 1 Wis
Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
Henry Furnace Co Medina Ohio
Hess Co 1855 S 54th Av Cicero Ill
Holland Furnace Co Holland Mich
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
International Heater Co 101 Park Av Utica 2 NY
International Oil Burner Co 3800 Park Av St Louis 10 Mo
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
Jettronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
King Stove & Range Co Sheffield Ala
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa
Kresky Mfg Co 2nd & "H" Petaluma Cal
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
MAJESTIC CO HALL ST HUNTINGTON IND
Meyer Furnace Co 1300 S Washington Peoria Ill
MORRISON STEEL PRODS INC 683 AMHERST BUFFALO 7 NY
Mueller Climatrol Corp 2005 W Oklahoma Milwaukee Wis
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Palmer Mfg Co 2200 W Fillmore Phoenix Ariz
Patten (J V) Co 550 DeKalb Av Sycamore Ill
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO
Premier Furnace Co Box 150 Dowagiac Mich
Queen Stove Wks 505 Front Albert Lea Minn
REZNOR MFG CO DAVID ST MERCER PA
RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY
Royal Jet Inc 1024 Westminster Alhambra Cal
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Smith (A O) Corp Permaglas-Heating Div Kankakee Ill
Steel City Furnace Co Springdale Pa
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Thatcher Furnace Co Center St Garwood NJ
TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH
Turb-O-Tube Furnace Co 204 Rhode Island Av Buffalo NY
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 18 Minn
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO
YORK-SHIPLEY INC BOX 349 YORK PA

FURNACES, OIL-FIRED

Aeroil Prods Inc 69 Wesley South Hackensack NJ
AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
American Foundry & Furnace Co 125 N McClun Bloomington Ill
American Gas Machine Co 505 Front Albert Lea Minn
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bard Mfg Co Bryan Ohio
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND 10 OHIO
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa
Cleveland Steel Prods Co ToridHeet Div 15801 Brookpark Rd Cleveland 11 Ohio
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
Conco Engineering Wks Conkey (H D) Co 1940 Thomas Mendota Ill
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Delta Heating Corp 1 Cole Trenton 8 NJ
Dowagiac Steel Furnace Co Dowagiac Mich
Dravo Corp Fifth & Liberty Avs Dravo Bldg Pittsburgh 22 Pa
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
Electric Furnace-Man Inc Emmaus Pa
Evans Prods Co 13101 Eckles Rd Plymouth Mich
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich
Hart Heat Div Avery Farm Machinery Co 2006 S Washington Peoria Ill
Harvey-Whipple Inc 55 Emery Springfield Mass
Heil Co 3000 W Montana Milwaukee 1 Wis
Henry Furnace Co Medina Ohio
Hess Co 1855 S 54th Av Cicero Ill
Holland Furnace Co Holland Mich
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
International Heater Co 101 Park Av Utica 2 NY
International Oil Burner Co 3800 Park Av St Louis 10 Mo
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO

Jettronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa
Kresky Mfg Co 2nd & "H" Petaluma Cal
Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
MAJESTIC CO HALL ST HUNTINGTON IND
Meyer Furnace Co 1300 S Washington Peoria Ill
MORRISON STEEL PRODS INC 683 AMHERST BUFFALO 7 NY
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee Wis
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Patten (J V) Co 550 DeKalb Av Sycamore Ill
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
Petroleum Heat & Power Co Springfield Av Stamford Conn
Premier Furnace Co Box 150 Dowagiac Mich
Preway Inc 1430 Second N Wisconsin Rapids Wis
Ray Oil Burner Co 1301 San Jose Av San Francisco 12 Cal
Reliance Mfg Co Box 2231 626 SE Stark Portland 14 Ore
Rheem Mfg Co 4361 Firestone Blvd South Gate Cal
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Silent Sioux Corp 208 W College Av Orange City Iowa
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Thatcher Furnace Co Center St Garwood NJ
TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH
Turb-O-Tube Furnace Co 204 Rhode Island Av Buffalo NY
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO
YORK-SHIPLEY INC BOX 349 YORK PA

FURNACES, SUSPENDED

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio
Auburn Foundry Co Inc Dallas & 11th Auburn Ind
Automatic Gas Equipment Co 301 Brushton Av Pittsburgh 21 Pa
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Century Engineering Corp 401 Third SE Cedar Rapids Iowa
Cox Mfg Co N Walnut St Ridgeville Ind
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Delta Heating Corp 1 Cole Trenton 8 NJ
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
Harvey-Whipple Inc 55 Emery Springfield Mass
Henry Furnace Co Medina Ohio
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
JACKSON & CHURCH 321 N HAMILTON SAGINAW MICH
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
Meyer Furnace Co 1300 S Washington Peoria Ill
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Av Detroit 26 Mich
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Palmer Mfg Co 2200 W Fillmore Phoenix Ariz
Patten (J V) Co 550 DeKalb Av Sycamore Ill
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
REZNOR MFG CO DAVID ST MERCER PA
Royal Jet Inc 1024 Westminster Alhambra Cal
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

FURNACES, WALL

Chattanooga Royal Co East Chattanooga Tenn
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN
Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
Delta Heating Corp 1 Cole Trenton 8 NJ
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
Kresky Mfg Co 2nd & "H" Petaluma Cal
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO
Rheem Mfg Co 4361 Firestone Blvd South Gate Cal
Royal Jet Inc 1024 Westminster Alhambra Cal
TEMCO INC 4104 PARK AV NASHVILLE 9 TENN
US Machine Corp Lebanon Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal

FURNITURE, BUILT-IN

BIANCO MFG CO 2736 VICTOR ST LOUIS 4 MO
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
Morgan Co 520 Oregon Oshkosh Wis
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis

FUSE BOXES, ELECTRIC SERVICE

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo
Cole Electric Prods Div Federal Electric Prods Co 43-06 Crescent Long Island City 1 NY
Columbia Metal Box Co 260 E 143rd New York 81 NY
Electrical Engineers Equipment Co Woodmanse Division St Melrose Park Ill
Federal Electric Prods Co 50 Paris Newark 5 NJ
GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN
Hedges-Walsh-Weidner Div Combination Engineering Superheater Inc 208 Madison Av New York 16 NY
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Leonard Electric Mfg Co 3003 Perkins Av Cleveland Ohio
Logan Clay Prods Co Logan Ohio
Porcelain Prods Inc 422 W Sandusky Findlay Ohio
Trumbull Components Dept General Electric Co Plainville Conn
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Wurdack (Wm) Electric Div Federal Electric Prods Co 4400 Clayton Av St Louis 10 Mo

GARBAGE DISPOSERS

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND
Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio
Berger (Thomas W) Inc 6 E Fourth Cincinnati Ohio
CALCINATOR CORP 28TH & WATER BAY CITY MICH
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
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London Furniture Co Cleveland Ohio
MULLINS MFG CORP WARREN OHIO
MURRAY CORP OF AMERICA 1900 S WASHINGTON SCRANTON 2 PA
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Olsen (C A) Mfg Co Filbert St Elyria Ohio
Pioneer Water Heater Corp 3131 San Fernando Rd Los Angeles 65 Cal
Schaible Co 1086 Summer Cincinnati 4 Ohio
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Universal Major Elec Appliance Co Box 119 Lima Ohio
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Valley Welding & Boiler Co Calcinator Div 27th & Water Bay City Mich
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E FOURTH MANSFIELD OHIO
Williams Oil-O-Matic Div Eureka-Williams Corp 1201 E Bell Bloomington Ill

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American Liquid Gas Corp 1109 Santa Fe Av Los Angeles Cal
Blaugas Co Omaha Neb
Blueflame Corp 2500 LaGrange Toledo 8 Ohio
Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
Delta Tank Mfg Co Inc Box 1469 Baton Rouge La
Dri-Gas Co 343 S Dearborn Chicago 4 Ill
Esso Standard Oil Co 15 W 51st New York 19 NY
Harms All Gas Co Allison Iowa
Natrogas Inc Minneapolis Minn
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Protane Corp Box 1898 Erie Pa
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Shell Oil Co Inc 50 W 50th New York 20 NY
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Aside from its dramatic beauty one of the chief merits of Texture One-Eleven is the speed by which it can be installed. 16 inch and 32 inch widths are designed to facilitate one-man application. Each width fits over standard stud spacing and rabbeted edges provide tight "blind" joints without special treatment. Patterns include grooves spaced 4" o.c. and 2" o.c.

Finishing. Weldwood Texture One-Eleven should be stained rather than painted. An exterior stain finish adds to the architectural beauty of the real wood siding and the texture pattern. Also, stain is more economical, more durable and easier to maintain in this use. The use of darker colors, a fresh architectural trend, is especially appropriate with Texture One-Eleven. Because of the texture and dominance of the grooves, any checks that may occur in stained Texture One-Eleven merely add to the beauty of the weathered effect. Clear finishes are not recommended.

WELDWOOD TEXTURE ONE-ELEVEN

Real wood in new dimensional beauty

SPECIFICATIONS:

Type: Exterior type Douglas fir plywood with 100% waterproof glue EXT-DFPA meets U. S. Commercial Standard CS45-48.

Thickness: ⅝-inch, 5-ply construction.

Appearance: Unsanded (rough) for texture. All plys are of C-quality Douglas fir veneer. Permits tight knots up to 1½"; knotholes up to 1"; splits up to ⅛". Faces are free from patches or tape.

Widths: Two patterns . . . 16/2 and 32/4. The 16/2 pattern is of panels 16" wide net (16-⅜" overall) with grooves 2" o.c. The 32/4 pattern is of panels 32" wide net (32-⅜" overall) with grooves 4" o.c. Grooves are ⅜" wide and ¼" deep. All panels are rabbeted both edges to provide hidden joints (shiplap) and make another groove at each joint. Rabbet is 5/16" deep; width of rabbet on face side is ¾" and on back side ⅜". (Also available, 16" panels with grooves 4" o.c. and 32" panels with grooves 2" o.c.)

Lengths: 96" and 120". (Shorter lengths also available.)

Packaging: Texture One-Eleven is packaged in sturdy, attractive corrugated paper containers clearly marked as to contents.

Interior and exterior plywoods

Douglas Fir Weldwood

	GRADE TRADEMARKS	FACE	BACK	WIDTHS (INCHES)	LENGTHS (INCHES)	THICKNESSES (INCHES)
Grades of Interior type **Weldwood**	Interior A-A	A	A	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4
	Interior A-B	A	B	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1
	Plypanel	A	D	30, 36, 48, 60	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4
	Plybase	B	D	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4
	Plyscord	C	D	24, 30, 36, 48	72, 84, 96, 108, 120	5/16, 3/8, 1/2, 5/8, 3/4
	L-1R (Interior) Plyform	B	B	48	96, 120	5/8, 3/4
Grades of Exterior type **Weldwood**	Ext-A-A	A	A	30, 36, 48	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-A-B	A	B	30, 36, 48, 60	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Plyshield	A	C	30, 36, 48, 60	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Utility	B	C	30, 36, 48	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Sheathing	C	C	24, 36, 48	72, 84, 96, 108, 120	5/16, 3/8, 1/2, 5/8, 3/4
	Ext-Plyform	B	B	36, 48	72, 84, 96, 120	5/8, 3/4

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Anchor Post Fence Div Anchor Post Prods Inc 6673 Eastern Av Baltimore Md
Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis
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COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
KEYSTONE STEEL & WIRE CO 1000 INDUSTRIAL PEORIA 7 ILL
Locke Mfg Co Ohio St Lodi Ohio
Metal Crafters East Av at 18th NE Cedar Rapids Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
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Millers Falls Co Wells & Devon Greenfield Mass
Starrett (L S) Co 101 Crescent Athol Mass
Union Tool Co 48 E River Orange Mass

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Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
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MISSISSIPPI GLASS CO 88 ANGELICA ST LOUIS 7 MO
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Plymold Co 2707 Tulare Av Burbank Cal
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Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Chehalis Brick & Tile Co Chehalis Wash
Forman-Ford & Co 111 E Second Minneapolis Minn
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
KIMBLE GLASS CO BOX 1035 TOLEDO 1 OHIO
PITTSBURGH CORNING CORP 1 GATEWAY CENTER PITTSBURGH 22 PA
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

GLASS, COLORED

Allied Synthetic Co 4654 De Soto San Diego 9 Cal
Blue Ridge Glass Corp Nicholas Bldg 12th Floor Toledo 3 Ohio
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Canton Glass Co Inc Marion Ind
Forman-Ford & Co 111 E Second Minneapolis Minn
Franklin Glass Corp Butler Pa
Goshen Sash & Door Co E Purl Goshen Ind
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RUSSELL REINFORCED PLASTICS CORP 8 S 12TH LINDENHURST LI NY

GLASS, CORRUGATED WIRE

Forman-Ford & Co 11 E Second Minneapolis Minn
MISSISSIPPI GLASS CO 88 ANGELICA ST LOUIS 7 MO
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa

GLASS CUTTER'S RULES

Barrett (William L) Bristol Conn
LUFKIN RULE CO SAGINAW MICH
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

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PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

GLASS, DOUBLE PANE

Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Forman-Ford & Co 111 E Second Minneapolis Minn
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

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Heller (W C) & Co 1050 Bryant Montpelier Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ

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Bache (Semon) & Co 636 Greenwich New York 14 NY
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
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Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

GLASS, PLATE, INSULATING

Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Goshen Sash & Door Co E Purl Goshen Ind
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BUILDING TOLEDO 3 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

GLASS SETTINGS, STRUCTURAL

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GLASS, STRUCTURAL

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ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL
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Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa
Franklin Glass Corp Butler Pa
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
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Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa
Dearborn Glass Co 2402 W 21st Chicago 8 Ill
Goshen Sash & Door Co E Purl Goshen Ind
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
Harding Glass Co 2524 Midland Bldg Fort Smith Ark
Hoosier Sash & Door Co Anderson Ind
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO
MISSISSIPPI GLASS CO 88 ANGELICA ST LOUIS MO
National Mirror Wks 1925 Kishwaukee Rockford Ill
Nurre Cos Inc Bloomington Ind
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Fort Pitt Chem Co 26th & Smallman Pittsburgh 22 Pa
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Goodrich (B F) Co 500 S Main Akron 18 Ohio
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United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Webb Prods Co 216 South G San Bernardino Cal
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

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Arvey Corp 3462 N Kimball Chicago 18 Ill
Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Plexolite Corp 4225 Jefferson Blvd Los Angeles Cal
RESOLITE CORP ZELIENOPLE PA
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
Sol-O-Lite Mfg Co 4301 W North Av Chicago Ill
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

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Bakelite Co Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
Borden Co Chemical Div 350 Madison Av New York 17 NY
Consumers Glue Co 1515 Hadley St Louis 6 Mo
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Hewitt (C B) & Bros Inc 23 Green New York 13 NY
Lacton Glue Mfg Co 611 Broadway New York 12 NY
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn
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Nicholson & Co 161 First Cambridge 42 Mass
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa
Plytex Corp 1731 Elston Av Chicago 22 Ill
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BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR ST NEW YORK 6 NY
Borden Co Chemical Div 350 Madison Av New York 17 NY
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
Consumers Glue Co 1515 Hadley St Louis 6 Mo
Crescent Prods Co 315 N 14th Terre Haute Ind
Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Hewitt (C B) & Bros Inc 23 Green New York 13 NY
Lacton Glue Mfg Co 611 Broadway New York 12 NY
Le Page's Inc 40 Swanson Gloucester 41 Mass
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
National Casein Sales 601 W 80th Chicago 20 Ill
National Plywoods Inc 2710 Throop Chicago Ill
Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa
Plytex Corp 1731 Elston Av Chicago 22 Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Thornton (L M) Mfg Co Inc 2825 E 18th Kansas City 1 Mo
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Webb Prods Co 216 South G San Bernardino Cal

GLUE, LIQUID

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Borden Co Chemical Div 350 Madison Av New York 17 NY
Carters Ink Co Kendall Sq Boston Mass
Coated Abrasives Dept Adhesive Div Armour & Co 1355 W 31st Chicago 9 Ill
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
Fuller (B H) Co 181 W Kellogg Blvd St Paul 2 Minn
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
International Glue Co 325 Marginal Boston Mass
Keystone Glue Co Williamsport Pa
LePage's Inc 40 Swanson Gloucester 41 Mass
Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn
MONSANTO CHEMICAL CO PLASTICS DIV 100 MONSANTO AV SPRINGFIELD 2 MASS
National Adhesives Div National Starch Prods Inc 268 Madison Av New York NY
National Casein Co 601 W 80th Chicago 20 Ill
National Plywoods Inc 2710 Throop Chicago Ill
Nicholson & Co 161 First Cambridge 42 Mass
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Perkins Glue Co 652 Cannon Av Lansdale Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plytex Corp 1731 Elston Av Chicago 22 Ill
Rogers Isinglass & Glue Co 210 Eastern Av Gloucester Mass
Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Webb Prods Co 216 South G San Bernardino Cal
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio

GLUE, RESIN

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill
American Cyanamid Co 30 Rockefeller Plaza New York 20 NY
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR ST NEW YORK 6 NY
Borden Co Chemical Div 350 Madison Av New York 17 NY
Catalin Corp of America 1 Park Av New York 16 NY
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
Fuller (H B) Co 255 Engle St Paul 2 Minn
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
Hewitt (C B) & Bros Inc 23 Greene New York 13 NY
Lacton Glue Mfg Co 611 Broadway New York 12 NY
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn
MONSANTO CHEMICAL CO WESTERN DIV 911 WESTERN AV SEATTLE 4 WASH
National Casein Sales 601 W 80th Chicago 20 Ill
National Plywoods Inc 2710 Throop Chicago Ill
Nicholson & Co 161 First Cambridge 42 Mass
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa
Plytex Corp 1731 Elston Av Chicago 22 Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
Standard Paste & Glue Co Inc 3620 W 38th Chicago Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Webb Prods Co 216 South G San Bernardino Cal
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio

GLUE, WATERPROOF

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill
American Cyanamid Co 30 Rockefeller Plaza New York 20 NY
Coated Abrasives Dept Adhesive Div Armour & Co 1355 W 31st Chicago 9 Ill
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR ST NEW YORK 6 NY
Borden Co Chemical Div 350 Madison Av New York 17 NY
Consumers Glue Co 1515 Hadley St Louis 6 Mo
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Hewitt (C B) & Bros Inc 23 Green New York 13 NY
LePage's Inc 40 Swanson Gloucester 41 Mass
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
National Casein Sales 601 W 80th Chicago 20 Ill
Nicholson & Co 161 First Cambridge 42 Mass
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa
Placo Div Paisley Prods Inc 718 Washington Av North Minneapolis Minn
Plytex Corp 1731 Elston Av Chicago 22 Ill
RODDIS PLYWOOD CORP 115 S PALMETTO MARSHFIELD WIS
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
Sauereisen Cements Co 1045 N Canal Pittsburgh 15 Pa
Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill
Stay-Tite Prods Co 3107 Detroit Cleveland 13 Ohio
Technical Supply Co 1911 University Av Palo Alto Cal
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 E 44TH NEW YORK 18 NY

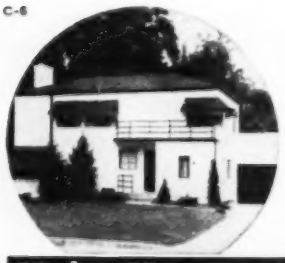
GRATES, VENTILATORS

Adams Co Box 268 Dubuque Iowa
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
MAJESTIC CO HALL ST HUNTINGTON IND
Standard Bronze Co 179 W Fifth Bayonne 20 NJ
Swett (A L) Iron Wks 151 Glenwood Av Medina NY

GRATINGS

Adams Co Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Hendrick Mfg Co Dundaff St Carbondale Pa
Industrial Iron Wks Box 625 6011 SW Macadam Portland 1 Ore
Locke Mfg Co Ohio St Lodi Ohio
Logan Co 201 Cabel Louisville 6 Ky
Marion Machine Foundry & Supply Co Marion Ind
Meyers (Fred L) Mfg Co 1176 Hoover Av Hamilton Ohio
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN

C-6



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Zurn (J A) Mfg Co Erie Pa

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Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO
Belson Mfg Co E River Rd North Aurora Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
Harris Inc 200 E Long Columbus 15 Ohio
Hohmann & Barnard Inc 204 E 33rd New York 16 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Locke Mfg Co Ohio St Lodi Ohio
MAJESTIC CO HALL ST HUNTINGTON IND
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN
Swett (A L) Iron Wks 151 Glenwood Av Medina NY

GRILLES, FIREPLACE

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
BENNETT-IRELAND INC 23 STATE NORWICH NY
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
HEATILATOR INC 661 BRIGHTON AV SYRACUSE 5 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
MAJESTIC CO HALL ST HUNTINGTON IND
Master Metal Prods Inc 291 Chicago Buffalo 4 NY
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Silent Glow Oil Burner Corp Hartford Conn
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL
US Register Co 344 E Burnham Battle Creek Mich

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Adams Co Box 268 Dubuque Iowa
Air Control Prods Inc Glade at Larch Coopersville Mich
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO
Bellkool Co Box 581 Appleton Wis
Belson Mfg Co E River Rd North Aurora Ill
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Erco Mfg Co 2368 Elston Av Chicago 14 Ill
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
Harris Inc 200 E Long Columbus 15 Ohio
Hart & Cooley Mfg Co 500 E 8th Holland Mich
HEATILATOR INC 661 E BRIGHTON SYRACUSE 5 NY
Hendrick Mfg Co Dundaff St Carbondale Pa
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky
Krauser-Boyd Inc 533 River Rd North Tonawanda NY
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MAJESTIC CO HALL ST HUNTINGTON IND
Newman Bros Inc 660 W 4th Cincinnati 3 Ohio
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Standard Bronze Co 179 W Fifth Bayonne 20 NJ
Stewart Iron Wks Co Inc 1551 Stewart Block Cincinnati Ohio
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Trane Co Third & Cameron LaCrosse Wis
US Register Co 344 E Burnham Battle Creek Mich
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson (J G) Corp 372 Lexington Av New York 17 NY

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Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Atlanta Stove Wks 112 Krog NE Atlanta Ga
BENNETT-IRELAND INC 23 STATE NORWICH NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Hancock Iron Wks 52 W Pike Pontiac Mich
Homer Furnace & Foundry Corp Coldwater Mich
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE WIS
MAJESTIC CO HALL ST HUNTINGTON IND
Master Metal Prods Inc 291 Chicago Buffalo 4 NY
Silent Glow Oil Burner Corp Hartford Conn
Titan Mfg Co Inc 701 Seneca Buffalo 10 NY
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Ave Milwaukee Wis

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Braun (J G) Co 615 S Paulina Chicago 12 Ill
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
US Register Co 344 E Burnham Battle Creek Mich
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
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COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA
Compo Miracle Prods Co 15521 W Eleven Mile Rd Berkley Mich
Decatur Iron & Steel Co Second St W Decatur Ala
Hawkins Iron Co Box 670 Birmingham 4 Ala
Hutchinson Co Box 11 Cedar Grove Sta Shreveport La
Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky
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Fully adjustable for all screen doors and combination doors, both wood & metal

See Pages 14-17

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Protex Weatherstrip Mfg Co 4508 S Western Chicago Ill
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
SAMCO (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY
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Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

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Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH
Logan Co 201 Cabel Louisville 6 Ky
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Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
National Guard Prods Inc 757 Madison Av Memphis Tenn
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
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BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
BOICE CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
BRADFORD MACHINE TOOL CO 656-671 EVANS CINCINNATI OHIO
Bridgeport Safety Emery Wheel Co 550 Main Stratford Conn
Champion Blower & Forge Co Harrisburg Av & Charlotte Lancaster Pa
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Clizbe Bros Mfg Co Plymouth Ind
Diehl Mfg Co 1185 Finderne Av Somerville NJ
Dumore Co 1300 17th Racine Wis
General Hdwe Co 3618 W Pierce Milwaukee Wis
Hanchett Mfg Co 906 N State Big Rapids Mich
Lima Electric Motor Co 4500 Findlay Rd Lima Ohio
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5360 W STATE MILWAUKEE 8 WIS
Newman Machine Co Inc 507 Jackson Greensboro NC
ROCKWELL MFG CO DELTA POWER TOOL DIV 620 E VIENNA MILWAUKEE 1 WIS
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Speed Way Mfg Co 1834 S 52nd Av Cicero 50 Ill
Standard Electrical Tool Co Cincinnati 4 Ohio
STANLEY WKS 111 ELM NEW BRITAIN CONN
Thor Power Tool Co State & Claim Aurora Ill
US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio
Vonnegut Moulder Corp Madison Av at Caven St Indianapolis Ind
Walker-Turner Div Kearney Trecker Corp 639 South Av Plainfield NJ
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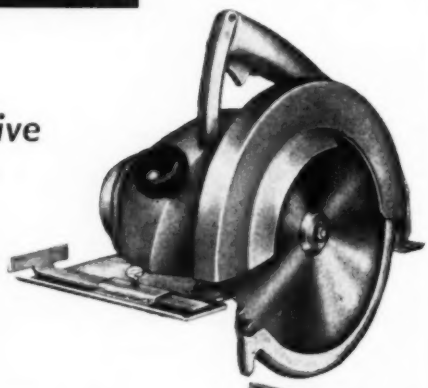

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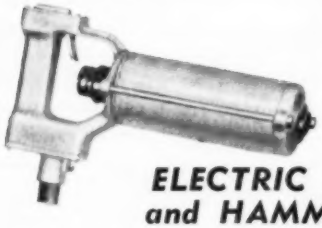

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Diehl Mfg Co 1185 Finderne Av Somerville NJ
DREMEL MFG CO 2420 18TH RACINE WIS
Duro Metal Prods 2649 N Kildare Chicago Ill
General Hdwe Co 3618 W Pierce Milwaukee Wis
Hoe (R) & Co Inc 910 E 138th New York 54 NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5360 W STATE MILWAUKEE 8 WIS
Newman Machine Co Inc 507 Jackson Greensboro NC
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Speedway Mfg Co 1834 S 52nd Cicero Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co State & Claim Aurora Ill
Toolkraft Corp Plainfield St Springfield 1 Mass
US Electric Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio
Wissota Mfg Co 1301 S Third Minneapolis Minn

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GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Mayes Bros Tool Mfg Co Port Austin Mich
STANLEY WKS 111 ELM NEW BRITAIN CONN
Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Sharon Steel Co Sharon Pa
UNITED STEEL FABRICATORS INC HIGH & GASCHE WOOSTER OHIO

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Steel & Wire Prods Co 217 S Central Av Baltimore 2 Md

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BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Boice Crane Co 930 W Central Av Toledo 6 Ohio
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Logan Co 201 Cabel Louisville 6 Ky
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH PA

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Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fiske (J W) Iron Wks 78 Park Pl New York 7 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
International Steel Co Evansville 7 Ind
Logan Co 201 Cabel Louisville 6 Ky
Mesker Bros 4330 Geraldine St Louis 2 Mo
Swett (A L) Iron Wks 151 Glenwood Av Medina NY

Western Foundry Co 2400 SW Water Portland 1 Ore

GUARDS, WINDOW

Adams Co Dubuque Iowa
ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO
Clay Equipment Corp Cedar Rapids Iowa
Clearview Louver Window Co 2625 Elm Dallas 1 Tex
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Grand Rapids Wire Prods Co Grand Rapids Mich
Hawkins Iron Co Box 670 Birmingham Ala
Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky
LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC COOPERSVILLE MICH
Locke Mfg Co Ohio St Lodi Ohio
Logan Co 201 Cabel Louisville 6 Ky
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Mesker Bros 4330 Geraldine St Louis 15 Mo
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND
Metal Crafters East Av at 18th NE Cedar Rapids Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
National Guard Prods 757 Madison Memphis 7 Tenn
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Slaymaker Lock Co 115 West End Av Lancaster Pa
Smith (F P) Wire & Iron Wks 2340 N Clybourn Av Chicago 14 Ill
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Standard Bronze Co 179 W Fifth Bayonne 20 NJ
Stewart Iron Wks Co Inc Box 1039 Cincinnati 1 Ohio
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

GUMMERS, SAW

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Champion Blower & Forge Co Harrisburg Av & Charlotte Lancaster Pa
Chicago Wheel & Mfg Co 1101 W Monroe Chicago 7 Ill
Foley Mfg Co 3300 NE Fifth Minneapolis Minn
General Hdwe Co 3618 W Pierce Milwaukee 15 Wis
Hanchett Mfg Co 906 N State Big Rapids Mich
Macklin Co 2914 Wildwood Rd Jackson Mich
Mid-West Abrasive Co 500 S Washington Owosso Mich
Norton Co 1 New Bond Worcester 6 Mass
Rogers (Samuel C) & Co 191 Dutton Av Buffalo 11 NY
Wisconsin Abrasive Mfg Co 1300 E Park Pl Milwaukee 11 Wis

GUNS, CAULKING & GLAZING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Biddle Co 608-624 S Main St Louis 2 Mo
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Felton Sibley & Co Inc 136 N Fourth Philadelphia 6 Pa
Ford Roofing Prods Co 188 W Randolph Chicago 2 Ill
Fort Pitt Chemical Co 26th & Smaliman Pittsburgh 22 Pa
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Horn (A C) Co Inc 10th at 44th Av Long Island City 1 NY
Kenmar Mfg Co Albert & Martha Philadelphia 25 Pa
Landen Putty Wks 45 Irving Malden Mass
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 22 Pa
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

CALKING GUNS FOR SPEED LOADS OR BULK
See Pages 14-17
SOLD BY
HARDWARE & LUMBER DEALERS
MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

National Guard Prods Inc 757 Madison Memphis 7 Tenn
PECORA PAINT CO INC FOURTH & RDG RR PHILADELPHIA 40 PA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
Seal Rite Caulking Co 6335 Lyndon Av Detroit Mich
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stewart-Warner Corp 1828 Diversey Pkwy Chicago 14 Ill
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tremco Mfg Co 8701 Kinsman Cleveland 4 Ohio
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
Vital Mfg Co 7500 Quincy Av Cleveland 4 Ohio
Western Reserve Mfg Co 3710 E 93rd Cleveland 5 Ohio
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass

GUNS, PNEUMATIC CONCRETE APPLICATION

COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Gunite Construction Corp 424 Lexington Av New York 17 NY
Macleod Co Box 452 Sharonville Ohio

GUTTERS, METAL

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armco Steel Corp 703 Curtis Middletown Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Cincinnati Sheet Metal & Roofing Co Cincinnati 2 Ohio
Gichner Inc 1900 Kendall NE Washington 2 DC
HARRISON STEEL CABINET CO 4718 W FIFTH AV CHICAGO 44 ILL
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Klauer Mfg Co Ninth & Washington Dubuque Iowa
Krauser-Boyd Inc 553 River Rd North Tonawanda NY
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Newport Steel Corp Ninth & Lowell Newport Ky
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Reeves Steel & Mfg Co Dover Ohio
REYNOLDS METALS CO BLDG PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Sioux Steel Co Sioux Falls SD
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Wheeling Corrugating Co Wheeling W Va
Willis Steel Corp Box 149 Galesburg Ill

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RUSSELL REINFORCED PLASTICS CORP 8 S 12TH LINDENHURST LI NY

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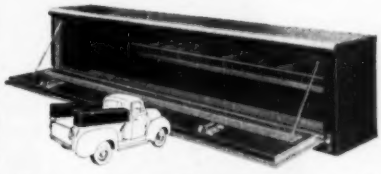

These easy-to-install tool and material compartments are finished in baked-on, medium-dark green enamel. Parts bins are built-in. Doors have slam-action catches, with locks keyed alike. Available with overhead rack.

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Company _____
Address _____
City & State _____
IN

GUTTERS, WOOD

Agnew Lumber Co Centralia Wash
American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill
Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
Dolbeer & Carson Lumber Co Merchants & Exchange Bldg San Francisco Cal
Duncan Wood Gutter Co 818 Securities Bldg Seattle 1 Wash
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Fordyce-Crossett Lumber Co Fordyce Ark
Giustina Bros Lumber Co Box 989 Eugene Ore
Hammond Lumber Co 417 Montgomery San Francisco Cal
Holmes-Eureka Lumber Co Financial Center Bldg San Francisco Cal
Long Fir Gutter Co Stanton Av Cadiz Ohio
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Mutual Fir Column Co Taylor Way & Lincoln Av Tacoma Wash
Union Lumber Co 620 Market Bldg San Francisco 4 Cal
Washington Mfg Co Box 1544 Tacoma 1 Wash
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Willamette Valley Lumber Co Dallas Ore

GYPSUM

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

HAMMERS, HAND, ALL TYPES

Billings & Spencer Co Hartford Conn
BOSTITCH INC 1101 MECHANIC WESTERLY RI
Burgess Fastening Co 1220 W 9th Cleveland 13 Ohio
Capewell Mfg Co 60 Governor Hartford 2 Conn
Champion-DeArment Tool Co Meadville Pa
Cheney (Henry) Hammer Corp Little Falls NY
David-Maydole Tool Corp Hurlburt & Forsythe Norwich NY
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Estwing Mfg Co Rockford Ill
Fairmount Tool & Forging Co 10611 Quincy Av Cleveland Ohio
FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Graham (John H) & Co Inc 105 Duane New York 8 NY
Griffith Tool Wks 2nd & Duncannon Av Philadelphia 20 Pa
Heller Bros Co Heller Dr Newcomerstown Ohio
Hotchkiss (E H) Co 10 Hoyt Norwalk Conn
Hubbard & Co 6301 Butler Pittsburgh 1 Pa
Ideal Industries Inc 1335 Park Av Syacamore Ill
Leetonia Tool Co 142 Main Leetonia Ohio
Marion Tool Corp Marion Ind
Markwell Mfg Co Inc 200 Hudson New York 12 NY
Mephisto Tool Co Inc Box 16 Hudson NY
National Lead Co 111 Broadway New York 6 NY
Owatonna Tool Co 341 Cedar Owatonna Minn
Ox-Wall Tool Co 928 Broadway New York 10 NY
Peck, Stow & Wilcox Co Southington Conn
Phoenix Hdwe Mfg Co Buffalo NY
Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa
Selek (Walter E) & Co 225 W Hubbard Chicago 10 Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN
True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
Vaughan & Bushnell Mfg Co 135 S LaSalle Chicago Ill
Vlchek Tool Co 3001 E 87th Cleveland 4 Ohio
Warren Tool Corp Box 791 Warren Ohio

HAMMERS, MAGNET

PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Vaughan & Bushnell Mfg Co 135 S LaSalle Chicago 3 Ill

HAMMERS, PNEUMATIC

Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Ingersoll-Rand Co 11 Broadway New York 4 NY
Worthington Corp S Second St Plainfield NJ

HAMMERS, PORTABLE ELECTRIC

Allied Tools Inc 321 Central Av Newark 4 NJ
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
Chicago Pneumatic Tool Co 6 E 44th New York NY
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5360 W STATE MILWAUKEE 8 WIS
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
TEMPO PRODS CO 2075 E 65TH CLEVELAND 3 OHIO
Thor Power Tool Co State & Claim Aurora Ill
Wodack Electric Tool Corp 4627 W Huron Chicago 44 Ill

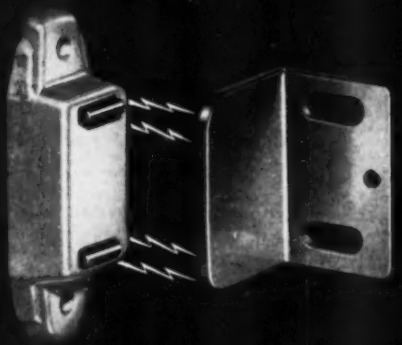
HAMPERS, BUILT-IN CLOTHES

Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Columbia Metal Box Co 260 E 143rd New York 51 NY
Ketcham (G M) Mfg Corp 70-70-80th Glendale Brooklyn 27 LI NY
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY
Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY
Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill

HANDLES FOR AXE, PICK, SLEDGE, HATCHET

Amos (Charles H) Handle Co Stillwell Okla
Bruner-Ivory Handle Co Hope Ark
Buckeye Handle Wks Co Cortland Ohio
Cheeseborough (Thos E) Freeport Mich
Chicago Wood & Plastic Prods 4201 W Irving Pk Chicago 41 Ill
Cooke (R F) Mfg Co Orange Mass
Dowel House 6315 Yale Av Chicago 21 Ill
Estes (E B) & Sons Inc 100 Fifth Av New York 11 NY
Greenslate Mfg Co Rich Hill Mo

UP goes the power



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Magnetic
Cabinet Catch

actual size

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55¢ retail is the amazing low cost that brings the selling magic of magnetic power within reach for every home you build! Use with any style of knob or pull you select. See your Amerock Dealer.

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ROCKFORD, ILLINOIS

Hartwell Bros Hollywood Sta Memphis 8 Tenn
Imperial Handle Mfg Co Tahlequah Okla
Madden Handle Co Mt Vernon Ind
Marion Handle Mills Inc Marion Va
Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa
Proto Tool Co 2209 Sante Fe Los Angeles 54 Cal
Stiles (H A) Co 160 N Washington Boston 14 Mass
Swan Handle Corp 53 Murray New York 7 NY
True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
Union Fork & Hoe Co Columbus Ohio

HANGARS, AIRPLANE

Butler Mfg Co 7400 E 13th Kansas City 26 Mo
International Steel Co 1321 Edgar Evansville 7 Ind
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE IND
RILCO LAMINATED PRODS CO 2680 FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Timber Structures Inc Portland 8 Ore
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Unit Structures Inc Peshtigo Wis
UNITED STEEL FABRICATORS INC WOOSTER OHIO

HANGERS, BATHTUB

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSMER BLDG PITTSBURGH 30 PA
KOHLER CO 44 HIGH KOHLER WIS
LUCKE (WILLIAM B) INC 514 RAILROAD AV WILMETTE ILL
Titewall Hanger Co 1458 W 87th Chicago Ill

HANGERS, EAVE TROUGH & CONDUCTOR PIPE

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Hopson (W C) Co 216-20 Grandville Av Grand Rapids 2 Mich
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Mid States Steel & Wire Co Crawfordsville Ind
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

HANGERS, INSULATION

Devices Inc 214 E 53rd New York 22 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

HANGERS, JOIST & LUMBER

Adams Co Dubuque Iowa
Allen Steel Prods Co 2941 E Ten-Mile Rd Hazel Park Mich
Cleveland Steel Specialty Co Inc 3765 E 91st Cleveland 5 Ohio
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
Conver Steel & Wire Co 621 E 132nd New York 54 NY
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Duplex Hanger Co E 53rd & Lakeside Av Cleveland Ohio
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill
Hohman & Barnard Inc 204 E 33rd New York 16 NY
Hosking Paper & Supply Drawer 43 Wilmette Ill
Ideal Hanger Co 1292 E 53rd Cleveland 14 Ohio
Lanebro Mfg Co Poughkeepsie NY
TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 7 DC
Weatherguard Service Inc 564 Jackson Av New York 55 NY

HANGERS, METAL LATH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Goldsmith Metal Lath Co Cincinnati Ohio
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

HANGERS, PIPE & CONDUIT

Acme Pipe Strap Co 944 Harper Detroit 11 Mich
Carpenter & Patterson Inc 1190 Bennington East Boston 28 Mass
Copperweld Steel Co 322 Frick Bldg Pittsburgh Pa
Diamond Expansion Bolt Co Garwood NJ
General Fittings Co 123 Georgia Av Providence 5 RI
Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio
Grey Iron Casting Co Mt Joy Pa
Malleable Iron Fittings Co Branford Conn
Modern Iron Wks 540 S 5th Quincy Ill
Paine Co Fullerton & Westgate Rd Addison Ill
Parker (Charles) Co 50 Hanover Meriden Conn
Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass
Signode Steel Strapping Co 2636 N Western Av Chicago 47 Ill
Unistrut Prods Co 1013 W Washington Blvd Chicago 7 Ill
Victor Specialties Rochelle NY
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

HARDBOARD, ASPHALT

Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Camp Co Inc 6958 S State Chicago 21 Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

HARDBOARD, COMPOSITION & FIBROUS, DECORATIVE

A&F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA
Aetna Plywood & Veneer Co 1752 N Elston Chicago 22 Ill
ARMSTRONG CORK CO BUILDING MATERIAL DIV 2801 LINCOLN LANCASTER PA
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BUTLER (B B) MFG CO INC 3146 RANDOLPH BELLWOOD ILL
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Chapco Sales Corvallis Ore
Consolidated Water Power & Paper Co Abdawagam Div Wisconsin Rapids Wis
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
DANT & RUSSELL 711 EQUITABLE BLDG PORTLAND ORE
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
Erdle Perforating Co Inc 175 York Rochester NY
Fir-Tex Insulating Board Co Porter Bldg Portland Ore
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forest Fiber Prods Co Box 68 AB Forest Grove Ore
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 300 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
LONG BELL LUMBER CO COMMERCE & DOUGLAS LONGVIEW WASH
Lustrewood Process Co Emmett St Bristol Conn
M & S Inc 15 E Third Cincinnati 2 Ohio
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL
Meadows (W R) Inc 2 Kimball Elgin Ill
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 4 Wis
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OREGON LUMBER CO BAKER ORE
Pacific Veneer & Plywood Corp Bellingham Wash
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plaswood Corp 18263 Hartwell Detroit 35 Mich
Plytex Corp 1731 Elston Av Chicago 22 Ill
Protective Papers Inc Union Ill
Rock Island Millwork Co Rock Island Ill
RODDIS PLYWOOD CORP MARSHFIELD WIS
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

HARDBOARD, EMBOSSED

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
DANT & RUSSELL 711 EQUITABLE BLDG PORTLAND ORE
MASONITE CORP 111 W WASHINGTON CHICAGO ILL
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

HARDBOARD, PACKAGED, SMALL SIZES

UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

HARDWARE, AWNING

Astrup Co 2937 W 25th Cleveland 13 Ohio
Awning Hdwe Co Baltimore 12 Md
Coyle (H B) Co Div of Bauer Bros Inc 1424 N 31st Philadelphia 21 Pa
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
SARGENT & CO 45 WATER NEW HAVEN 9 CONN

HARDWARE, AWNING WINDOW

Coyle (H B) Co Div of Bauer Bros Inc 1424 N 31st Philadelphia 21 Pa
Fanner Mfg Co Brookside Park Cleveland 9 Ohio
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Slaymaker Lock Co 115 S West End Av Lancaster Pa
STERLING HDWE MFG CO 2345 W NELSON CHICAGO 18 ILL
Super Vent Co 905 W North Av Chicago 6 Ill
Universal Window Co 950 Parker Berkeley 10 Cal
Washburn Co 28 Union Worcester 8 Mass
Whitney (Vincent) Co Box 335 Sausalito Cal

HARDWARE, BARN

ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Larson (Chas O) Co Ave "G" & C&NW Ry Sterling Ill
Lawrence Bros Sterling Ill

Louden Machinery Co 261 S Court Fairfield Iowa
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
NATIONAL MFG CO STERLING ILL
Ney Mfg Co 948 High Av SW Canton 4 Ohio
Nixalite Co of America 115-119 W 3rd Davenport Iowa
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc 300 W Front Harvard Ill
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

HARDWARE, CABINET

Acorn Mfg Co Mansfield Mass
ADAMS-RITE MFG CO 540 W CHEVY CHASE DR GLENDALE 4 CAL
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
American Brass Goods Co Grand Rapids 2 Mich
American Cabinet Hdwe Corp 416 S Main Rockford Ill
Austin & Eddy Inc Box 1504 Boston 4 Mass
Casement Hdwe Co 612 Michigan Av Chicago 11 Ill
Champion Hdwe Co Geneva Ohio
Cipco Corp 22nd & Cole St Louis 6 Mo
Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio
Clinton Lock Co Clinton Iowa
Colonial Bronze Co Winsted Rd Torrington Conn
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
Corbin Cabinet Lock Div American Hdwe Corp Park & Orchard New Britain Conn
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
Extension Drawer Support Co 3727 Broadway Pl Los Angeles 7 Cal
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
GARDEN CITY PLATING & MFG CO 1750 N ASHLAND AV CHICAGO 22 ILL
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Grand Rapids Hdwe Co 560 11th NW Grand Rapids Mich
Grant Pulley & Hdwe Corp 31-63 Whitestone Flushing LI NY
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Harvard Lock Co Reading Pa
Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn
Illinois Lock Co 822 S Ada Chicago 7 Ill
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Lawrence Bros Sterling Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Modern Plastics Co 4641 Pacific Blvd Los Angeles 58 Cal
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Nordahl Co 180 W Alameda Burbank Cal
Norwalk Lock Co Div Segal Lock & Hdwe Co 395 Broadway New York 13 NY
Old Guilford Forge Guilford Conn
Olympic Hdwe & Paints 4125 W Olympic Blvd Los Angeles Cal
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Petko Industries 1107 E 8th Los Angeles 21 Cal
Phoenix Lock Co Newark 7 NJ
Reese Padlock Co 126 Sherman Lancaster Pa
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Sharon Hdwe Mfg Co Sharon Pa
Shelby Metal Prods Co Shelby Ohio
Shelby Spring Hinge Co Shelby Ohio
Slaymaker Lock Co 115 S West End Av Lancaster Pa
SOSS MFG CO 21777 HOOVER RD BOX 38 HARPER STA DETROIT 13 MICH
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
Star Metal Prods Inc 370 Butler Brooklyn NY
STERLING HDWE MFG CO CHICAGO 18 ILL
Technical Glass Co Inc 2050 E 48th Los Angeles 11 Cal
TRIANGLE MFG CO 406 DIVISION OSHKOSH WIS
Vimcar Sales Co Box 2187 S Annex Sta Van Nuys Cal
WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH
Weber-Knapp Co Jamestown NY
WESTERN LOCK MFG CO 211 N MADISON AV LOS ANGELES 4 CAL
YALE & TOWNE MFG CO STAMFORD CONN

HARDWARE, CASEMENT WINDOW

American Cabinet Hdwe Corp 416 S Main Rockford Ill
ARROW LOCK CORP 762 WYTHE AV BROOKLYN 11 NY
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
Champion Hdwe Co Geneva O
CORBIN (P&F) CORP AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Croft Steel Prods Inc 10 Market Jamestown NY
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN CONN
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Lawrence Bros Sterling Ill
LOCKWOOD HDWE MFG CO FITCHBURG MASS
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Penn Hdwe Co Spruce St Reading Pa
Rixson (Oscar C) Co 4450 Carroll Av Chicago 25 Ill
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Shelby Spring Hinge Co Shelby Ohio
Slaymaker Lock Co 115 S West End Av Lancaster Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
Universal Window Co 950 Parker Berkeley 10 Cal
Whitner (Vincent) Co Box 335 Sausalito Cal
Wright Prods Co St Paul Park Minn
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

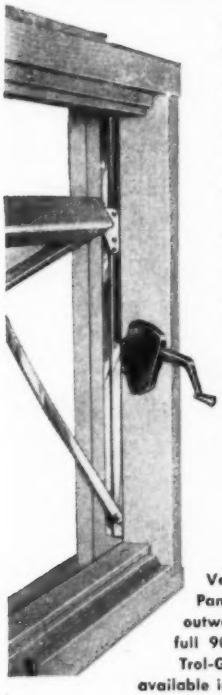
HARDWARE, CLOTHES CLOSET

Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Amerline Inc 1753 Honore Chicago 22 Ill
Arrow Lock Corp 762 Wythe Av Brooklyn 11 NY
Atkinson Mfg Co Ludington Mich
Autoyre Co Oakville Conn
Champion Hdwe Co Geneva Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Duncan Shaw Corp 33 W 42 New York 18 NY
Fawsco Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Fa Ohio
Fiwale Equipment Mfg Co 1 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Handy Things Mfg Co Ludington Mich
Illinois Porcelain Enamel Co 420 S Winchester Av Chicago 12 Ill
IVES (H B) CO 5 ARTIZAN NEW HAVEN CONN
Judd (H L) Co 87 Chambers New York 7 NY
KDK Upset Forging Co 2645 N Keeler Chicago 18 Ill
Ken-Ro-Bil Co Van Buren Ohio
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Kraus (Walter S) Co 48-02 43rd Woodside NY
Larson (Charles O) Co Ave "G" & C&NW RY Sterling Ill
Lawrence Bros Sterling Ill
LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH
Marvel Rack Mfg Co 24 N 1st Minneapolis 1 Minn
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Modern Plastic Co 4641 Pacific Blvd Los Angeles 58 Cal
Nordahl Co 180 W Alameda Burbank Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Penn Hdwe Co Spruce St Reading Pa
Reese Padlock Co 126 Sherman Lancaster Pa
Rop-Loc Prods Co 16110 Brookpark Rd Cleveland Ohio
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Shelby Spring Hinge Co Shelby Ohio
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Southern Galvanizing Co Bush St & B&ORR Baltimore 30 Md
STANLEY WKS 111 ELM NEW BRITAIN CONN
Universal Steel Equipment Corp 32-35 47th Av New York 1 NY
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
Washburn Co 28 Union Worcester 8 Mass
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

HARDWARE, DOOR

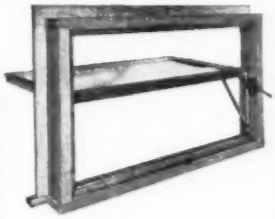
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
American Sliding Door Hdwe Corp 2084 First Av New York 29 NY
Champion Hdwe Co Geneva Ohio
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Erco Mfg Co 2368 Elston Av Chicago 14 Ill
FRANTZ MFG CO 301 W 3RD STERLING ILL
Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich
GRANT PULLEY & HDWE CORP 31-63 WHITESTONE EXPWY FLUSHING LI NY
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN CONN
KWIKSET SALES & SERVICE CO 516 E SANTA ANA ANAHEIM CAL
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL MFG CO STERLING ILL
Nudor Mfg Corp 7326 Fulton Av North Hollywood Cal
Old Guilford Forge Guilford Conn
Olympic Hdwe & Paints 4125 W Olympic Blvd Los Angeles Cal
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow St New York 2 NY
Peerless Mfg Co Inc 2199 N 11th Reading Pa
Penn Hdwe Co Spruce St Reading Pa

both sides of windows can be washed from the inside with the new Grand Rapids Ven-Trol-Gear



The popular new Grand Rapids "Ven-Trol-Gear" opening mechanism for window ventilating panels in the modern multi-panel window systems offers many exclusive advantages that appeal to owners of residential, monumental and commercial buildings. It swings ventilating panels outward and downward to any degree of opening desired to assure full view as well as the most efficient ventilation regardless of weather . . . opens and closes windows smoothly, quietly and easily . . . and permits easy washing of both sides of the window panes from the inside. See other important features listed below.

VEN-TROL-GEAR
VENT PANEL ACTUATOR
FOR PANEL WINDOW SYSTEMS



Ventilating Panels open outward to a full 90°. Ven-Trol-Gears are available in 5 sizes handling a minimum of 15 openings.

MOST PRACTICAL AND EFFICIENT OPENING MECHANISM AVAILABLE TODAY

CHECK THESE FEATURES:

1. Fingertip gear-operated control — nylon rollers assure smooth, noiseless operation.

2. Operating mechanism fully concealed including hinging mechanism.

3. Handle grip location adjustable down 15° from horizontal position.

4. Positive locking mechanism fully concealed except for operating lever.

5. Designed for use on wood or metal windows with minimum frame opening height 1' 0" . . . maximum sash weight 40 lbs.

6. Can be used with any type of glazing up to 1" including double glazing.

7. Can be used with any wall thickness or trim as mechanism is integral part of window.

8. Quick, easy installation —exposed controls finished in antique bronze enamel with special finishes available on request.

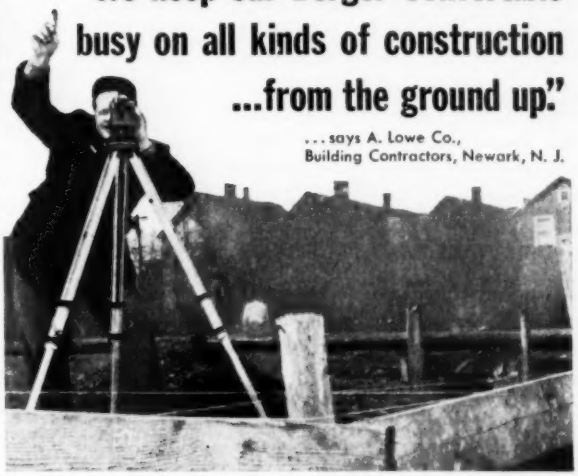
Make your A. B. C. for 1954..."Always be Competitive"

WRITE FOR ILLUSTRATED LITERATURE TODAY!

GRAND RAPIDS HARDWARE CO.
GRAND RAPIDS 2, MICHIGAN
NEW YORK · LOS ANGELES · DANBURY, CONN.

"We keep our Berger Convertible busy on all kinds of construction ...from the ground up."

... says A. Lowe Co., Building Contractors, Newark, N. J.



"One day you'll see it at work laying out a new factory site, marking batter boards, checking elevations for excavating and grading. Or it's measuring elevation of concrete piers for the steel columns of an office building, setting lintels, aligning and plumbing structural steel. On another job, we'll have it picking up elevations for finished floors, measuring hung ceiling heights, setting door bucks, and checking all other stages of construction."

That's because the Berger is built for builders—designed to be consistently accurate, simple to set up for quick readings, easy to level up. The image you see through the 12", 24 power telescope with its coated optics is *right side up*. Rigid and sturdy —of brass and bronze construction—it takes the bumps in the field and stays on the job without time lost for repair.

Before buying a Convertible... *Compare!*

This table compares the Berger Convertible with the other two leading instruments—shows why so many more builders buy BERGER.

	Berger Convertible	Convertible No. 1*	Convertible No. 2**
TELESCOPE	24-26 power 34 mm. clear aperture bronze vial sensitivity 60 sec.	less 30 mm. clear aperture fabricated vial sensitivity 90 sec.	less 33 mm. clear aperture zinc die cast vial sensitivity 120 sec.
OPTICS	Coated	Coated	Coated
FOOT PLATE	Brass Trivet integral	Aluminum Trivet integral	Brass Trivet points separate
HORIZONTAL CIRCLE	Forged Brass	Aluminum	Brass
YOKE FRAME	Bronze	Aluminum	Zinc
TANGENT PIECE	Brass	Aluminum	Integral with clamp
TELESCOPE CLAMP	Brass	Aluminum	Zinc
PLATE LEVEL	Yes	No	No
CASE	Mahogany transit case	Level type box	Level type box
STRAP	Padded leather handle	Plain leather *Retails higher than Berger*	Plain leather **Retails lower than Berger*

Quick delivery—thanks to enlarged capacity
Price $219, complete with mahogany transit case, tripod, plumb bob, sun shade and instruction manual.

Write for literature on this and 12" Dumpy Level, Service Transit-Level. And ask about our Engineers' Transits and Levels.

C. L. Berger & Sons, Inc., 37 Williams St., Boston 19, Mass.

THE BEST IN SIGHT IS BERGER
ENGINEERING AND SURVEYING INSTRUMENTS...SINCE 1871

Safe Padlock & Hdwe Co Second & Crystal Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WESTERN LOCK MFG CO 211 N MADISON AV LOS ANGELES 4 CAL
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

HARDWARE, DOOR ACCESSORY

Acorn Mfg Co Mansfield Mass
ADAMS RITE MFG CO 540 W CHEVY CHASE GLENDALE 4 CAL
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 7 ILL
American Cabinet Hdwe Corp 416 N Main Rockford Ill
ARROW LOCK CORP 762 WYTHE AV BROOKLYN 11 NY
Baldwin Mfg Corp 1290 Central Av Hillside NJ
Busch (A G) Co Inc 2632 N Central Av Chicago 39 Ill
Champion Hdwe Co Geneva Ohio
Chesler (J) & Sons 43-49 Varick Av Brooklyn 37 NY
Cipco Corp 22nd & Cole St Louis 6 Mo
Clinton Lock Co Clinton Iowa
Columbus Brass Mfg Co 620 Dublin Av Columbus 16 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Decorite Inc 2116 Peachtree Rd Atlanta Ga
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Fiske (J W) Iron Wks 78 Park Pl New York 7 NY
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Genseo Tools 1830 N Kostner Av Chicago 39 Ill
Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich
Grand Specialties Co 3101 W Grand Chicago 22 Ill
GRANT PULLEY & HDWE CORP 31-63 WHITESTONE PKWY FLUSHING LI NY
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal
Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Kant Slam Door Check Co Bloomfield Ind
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Kentucky Metal Prods Co Preston & Auburdon Pk Louisville 4 Ky
KWIKSET SALES & SERVICE CO 516 E SANTA ANA ANAHEIM CAL
LABORATORY EQUIPMENT CORP HILLTOP RD ST JOSEPH 6 MICH
LOCKWOOD HDWE MFG CO FITCHBURG MASS
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Modern Plastic Co 4641 Pacific Blvd Los Angeles 58 Cal
Monarch Metal Weatherstrip Co 6335 Etzel Av St Louis 14 Mo
National Guard Prods 757 Madison Memphis 7 Tenn
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
Newman Bros 660 W 4th Cincinnati 3 Ohio
Northern Industries 310 N Water Milwaukee 2 Wis
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Penn Hdwe Co Spruce St Reading Pa
Petko Industries 1107 E 8th Los Angeles 21 Cal
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Phoenix Hdwe Mfg Co Buffalo NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reese Padlock Co 126 Sherman Lancaster Pa
RICHARD-WILCOX MFG CO 220 3RD AURORA ILL
RITTENHOUSE CO INC EARL ST HONEOYE FALLS NY
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER ST NEW HAVEN CONN
SCHLAGE LOCK CO 2201 BAY SHORE BLVD SAN FRANCISCO 19 CAL
Segal Lock & Hdwe Co Inc 395 Broadway New York 13 NY
Shelby Metal Prods Co Shelby Ohio
Shelby Spring Hinge Co Shelby Ohio
Skillman Hdwe Mfg Co 530 Edgewood Av Trenton 4 NJ
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Southern Wire & Iron Wks 441 Memorial Dr Atlanta Ga
Spanjers (A J) Co 1915 Lilac Dr Minneapolis Minn
Standard Mirror Co 141 Milton Buffalo 10 NY
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc 300 N Front Harvard Ill
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
Sultan Bros 1470 39th Brooklyn 18 NY
Superior Accessory Co Glendale 4 Cal
Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa
Thermal Co 45 W Durham Philadelphia 19 Pa
Trego Industries Box 221 Red Oak Tex
Turner Brass Wks 821 Park Av Sycamore Ill
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
Washington Mfg Co Box 370 Washington Iowa
Waterloo Sales Co Cleveland 19 Ohio
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio
WESTWOOD MFG CO 1420 S EVERGREEN LOS ANGELES 54 CAL
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

HARDWARE, DRAWER KNOBS & PULLS

ADAMS-RITE MFG CO 540 CHEVY CHASE GLENDALE 4 CAL
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
American Brass Goods Co Grand Rapids Mich
American Cabinet Hdwe Corp 416 S Main Rockford Ill
ARROW LOCK CORP 762 WYTHE AV BROOKLYN 11 NY
Barrows Lock Wks 24th & Commonwealth Av North Chicago Ill
BENDIX MFG CO 192 LEXINGTON AV NEW YORK 16 NY
Champion Hdwe Co Geneva Ohio
Chicago Wood & Plastic Prods Co 4201 W Irving Pk Chicago 41 Ill
Colonial Bronze Co Winsted Rd Torrington Conn
Cooke (R F) Mfg Co Orange Mass
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Dedoes Machine Wks 2070 W 11-Mile Rd Berkley Mich
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Eldon Mfg Co 1010 E 62nd Los Angeles 1 Cal
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
Genseo Tools 1830 N Kostner Av Chicago 39 Ill
Gits Molding Corp 4600 W Huron Chicago 44 Ill
GRANT PULLEY & HDWE CORP 31-63 WHITESTONE PKWY FLUSHING LI NY
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Modern Plastic Co 4641 Pacific Blvd Los Angeles 58 Cal
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY
Olympic Hdwe & Paints 4125 W Olympic Blvd Los Angeles Cal
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Peabody Co Inc 5816 Hooper Av Los Angeles Cal
Penn Hdwe Co Spruce St Reading Pa
Petko Industries 1107 E 8th Los Angeles 21 Cal
Republic Hdwe & Distributing Corp Indianapolis 4 Ind
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER ST NEW HAVEN CONN
SCHLAGE LOCK CO 2201 BAY SHORE BLVD SAN FRANCISCO 19 CAL
Segal Lock & Hardware Co Inc 395 Broadway New York 13 NY
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
Stiles (H A) Co 160 N Washington Boston 14 Mass
Technical Glass Co Inc 2050 E 48th Los Angeles 11 Cal
Turner Brass Wks 821 Park Av Sycamore Ill
United States Glass Co Fourth Av & Vine Tiffin Ohio
Warren (J D) Mfg Co Montpelier Ohio
Western Lock Mfg Co 211 N Madison Av Los Angeles 4 Cal
WESTWOOD MFG CO 1420 S EVERGREEN LOS ANGELES 23 CAL
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

HARDWARE, GARAGE DOOR

ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
BARBER-COLMAN CO 120 MILL ROCKFORD ILL
Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill
CALDER MFG CO 631 N PRINCE LANCASTER 3 PA
Capitol Prods Co 118 S Third Springfield Ill
Champion Hdwe Co Geneva Ohio
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Commander Door Inc Maple Av & B&ORR Holmes Pa
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
CRANE (H W) CO 15 N 9TH AV MAYWOOD ILL
CRAWFORD DOOR CO 20263 HOOVER RD DETROIT 5 MICH
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Genseo Tools 1830 N Kostner Av Chicago 39 Ill
Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich
Grand Specialties Co 3101 W Grand Chicago 22 Ill
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Lawrence Bros Sterling Ill
Louden Machinery Co 261 S Court Fairfield Iowa
McKee Door Co 143 Hermes Aurora Ill
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
NATIONAL MFG CO STERLING ILL
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND

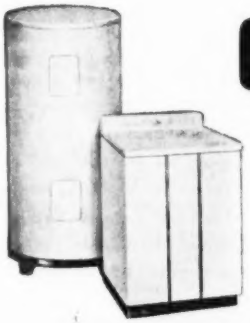
This builder keeps out of hot water...

YOU can keep yourself out of hot water—and keep your customers *in* it, by installing *Electric* Water Heaters.

Home buyers want to be modern—to live *electrically*—so they want this water heater that automatically assures an ample supply of hot water at any hour of the day or night. They like the fact that it is clean in operation, and doesn't heat up the area where it is installed, because the tank is so completely and efficiently insulated.

The *Electric* Water Heater is good for the builder—as well as his customer. Since it can be installed anywhere, hot water lines can be short—to reduce installation cost and minimize radiation loss. It can help make your home buyers your satisfied customers.

These houses are in Sylvan Springs, St. Louis, Missouri. Builder Matthew Nothum says: "Electric appliances are a part of modern living—and they do sell homes. That's why all our houses here are equipped with *Electric* Water Heaters. There's nothing like an ample, automatic supply of really hot water to sell home buyers and keep them sold."



QUIZ FOR BUILDERS

Q. What size *Electric* Storage Type Water Heater should I install?

A. It pays to install a size adequate to take care of every potential need. In the Nothum houses, the 3-bedroom models have the 80-gallon size, and the 2-bedroom houses have the 66-gallon size.

Be modern . . . live *electrically!*

Equip your homes with

electric water heaters

THEY'RE WHAT PEOPLE WANT!

ELECTRIC WATER HEATER SECTION
National Electrical Manufacturers Association
155 East 44th Street, New York 17, N. Y.

ALLCRAFT • BAUER • C-E HEATMASTER • CRANE-LINE SELECTRIC • CROSLEY • DEEPFREEZE
FAIRBANKS-MORSE • FRIGIDAIRE • GENERAL ELECTRIC • HOTPOINT • HOTSTREAM
JOHN WOOD • KELVINATOR • LAWSON • MERTLAND • MONARCH • HORGE • PEMCO
REX • RHEEM • SEPCO • A. O. SMITH • THERMOGRAY • WESIX • WESTINGHOUSE

Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
Sharon Hdwe Mfg Co Sharon Pa
Shelby Spring Hinge Co Shelby Ohio
SHEFFIELD DOORS INC ROCKFORD ILL
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc 300 W Front Harvard Ill
Sterling Bolt Co 363 W Erie Chicago Ill
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
Stronghold Screw Prods 1883 W Winnemac Av Chicago 40 Ill
Tavart Co Ltd 15134 S Orizaba Box 42 Clearwater Cal
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
Western Prods Inc Newcastle Ind
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

HARDWARE, GARAGE, FOLDING DOOR

Busch (A G) & Co Inc 2632 N Central Chicago 39 Ill
Clinton Lock Co Clinton Iowa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
FRANTZ MFG CO 301 W 3RD STERLING ILL
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
Louden Machinery Co 1120 Broadway Fairfield Iowa
NATIONAL MFG CO STERLING ILL
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Sharon Hdwe Mfg Co Sharon Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

HARDWARE, GARAGE, UPWARD-ACTING

ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal
BARBER-COLMAN CO 120 MILL ROCKFORD ILL
Better-Bilt Door Co Egg Harbor NJ
CALDER MFG CO 630 N PRINCE LANCASTER 4 PA
Capitol Prods Co 118 S Third Springfield Ill
Clay Equipment Corp 1048 Blake Cedar Falls Iowa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Homes Mfg Co 211 N Madison Av Los Angeles 4 Cal
Louden Machinery Co Fairfield Iowa
McKee Door Co 143 Hermes Aurora Ill
NATIONAL MFG CO STERLING ILL
OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
SHEFFIELD DOORS INC ROCKFORD ILL
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc Harvard Ill
Tavart Co 15134 S Orizaba Av Paramount Cal
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
Wagner Mfg Co Cedar Falls Iowa
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

HARDWARE, LADDER

American Ladder Co 5509 NW 7th Av Miami 38 Fla
Babcock (W W) Co Inc Delaware Av Bath NY
Caster Mold & Machine Co 1171 Wooster Barberton Ohio
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Heider Mfg Co Carroll Iowa
Larson Ladder Co San Jose Cal
Newark Ladder & Bracket Co 17 Walnut Av Clark (Rahway) NJ
Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
STANLEY WKS 111 ELM NEW BRITAIN CONN
Tilley (John S) Ladders Co Inc 2365 McKinley Av Davenport Iowa

HARDWARE, SCREEN & STORM SASH

Acorn Mfg Co Mansfield Mass
Air-Tite Window Stay Co Chicopee Mass
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
American Cabinet Hdwe Corp Dept 1-AP Rockford Ill
Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
CECO STEEL PRODS CORP 5601 W 26TH CICERO 50 ILL
Champion Hdwe Co Geneva Ohio
Chicago Spring Hinge Co 1500-02 Carroll Av Chicago Ill
Clinton Lock Co Clinton Iowa
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
FRANTZ MFG CO 301 W 3RD STERLING ILL
General Hdwe Mfg Co Inc 80 White New York 13 NY
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Handy Things Mfg Co N Rowe St Ludington Mich
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Larson (Charles O) Co Ave "G" & C&NW Ry Sterling Ill
Lawrence Bros Sterling Ill
LOCKWOOD HDWE MFG CO FITCHBURG MASS
Ludwig Mfg Co Inc 2401 Durand Rd Racine Wis
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY
Oley Prods Inc 199 Wahl Av Inwood LI NY
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Penn Hdwe Co Spruce St Reading Pa
Petko Industries 1107 E 8th Los Angeles 21 Cal
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON AV NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
Sharon Hdwe Mfg Co Sharon Pa
Shelby Spring Hinge Co Shelby Ohio
Slaymaker Lock Co 115 S West End Av Lancaster Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN
STERLING HDWE MFG CO 2341 W NELSON CHICAGO 18 ILL
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
Washburn Co 28 Union Worcester 8 Mass
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wright Prods Inc St Paul Park Minn
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

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Accurate Metal Weatherstrip Co Inc 216 E 26th New York 10 NY
ACME APPLIANCE MFG CO 35 S RAYMOND AV PASADENA 1 CAL
ADAMS-RITE MFG CO 540 W CHEVY CHASE DR GLENDALE 4 CAL
ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA
American Sliding Door Hdwe Corp 2084 First Av New York 29 NY
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Clinton Lock Co Clinton Iowa
Coburn Trolley Track Prods Wickwire Spencer Steel Div Colorado Fuel & Iron Corp Clinton Mass
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
FRANTZ MFG CO 301 W 3RD STERLING ILL
Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill
Garrick & Custer Inc 2050 W Florence Av Los Angeles 47 Cal
GRANT PULLEY & HDWE CORP 31-63 WHITESTONE PKWY FLUSHING LI NY
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SLIDING DOOR HARDWARE
Specialists!
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ELKHART, INDIANA

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Lanebro Mfg Co Inc Poughkeepsie NY
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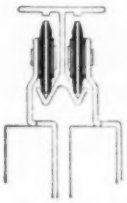
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
Long (Ralph L) Co 3570 Olive Lemon Grove Cal
Louden Machinery Co 261 Court Fairfield Iowa
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA


M-D
Sliding Door
HARDWARE
FOR ALL DOORS UP TO 70 LBS.
¾", 1", 1⅜" and wall pocket doors
★ Never jumps track!
★ Completely noiseless!
See Pages 14-17
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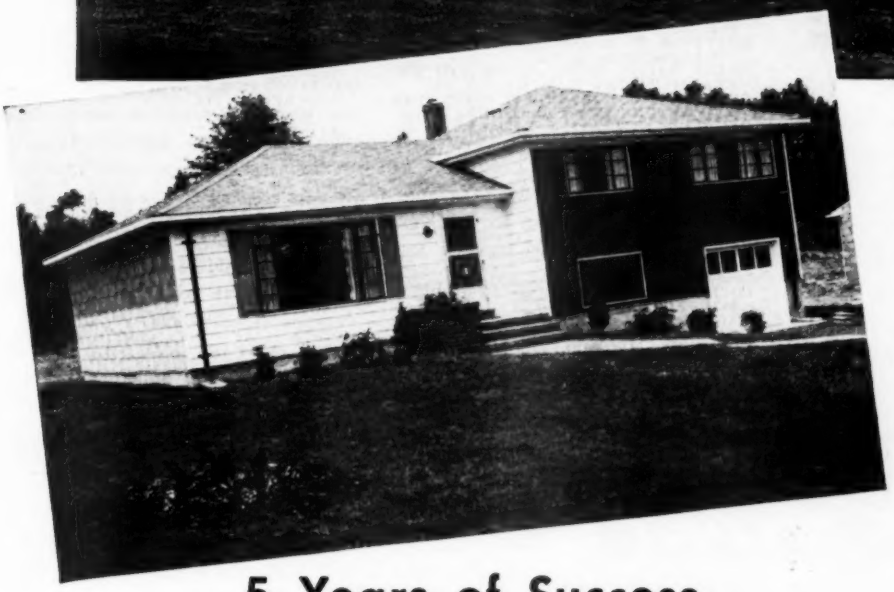
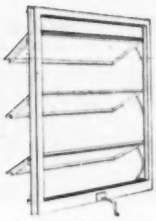
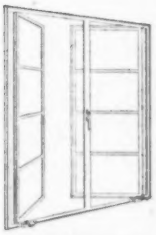
Nasco Wood Prods Inc 402 E 108th New York 16 NY
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Ney Mfg Co 948 High Av SW Canton Ohio
NORDAHL CO 180 W ALAMEDA BURBANK CAL
Nu-Way Builders Corp 7326 Fulton North Hollywood Cal
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY



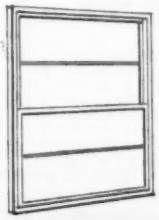
"Brunetti Built Homes", Glen Rock, New Jersey. Builder: Fred Brunetti, Maywood, N. J. Architect: Leonard G. Feinen, Hasbrouck Heights, N. J. Windows: Lupton Steel Residential Casements.



Lupton Aluminum Awning Window



Lupton Casement Steel or Aluminum



Lupton Aluminum Double Hung Window

5 Years of Success with Lupton Metal Windows

When the same builder buys the same windows year after year it can mean just one thing. He likes them — and so do the people who buy his houses. Since 1949 about 500 "Brunetti Built Homes" have been built in Bergen County, N. J., with Lupton Steel casements in all of them. And why not . . . what other window offers so much for so little:

There is strength — sturdy steel welded for long-lasting window life.

There is beauty — slender frames and muntins have a delicate, airy grace, blend with any architectural style.

There is efficiency — extended hinges allow both sides of the glass to be cleaned from the room. A Roto-operator assures quick, easy opening of the window, and snug tight closing. And, a Lupton Casement gives 100% ventilation use of the window opening.

There are construction savings — installation is quick and simple, a one-man job. Very little trim is needed, and you can even cut down on that with Lupton Metal Surrounds and Casings.

Why not add the Lupton 40-year-old reputation for quality to your name. Get full details today. There's a Lupton Metal Window of Steel or Aluminum for any building—write for the complete catalog.

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700 East Godfrey Avenue, Philadelphia 24, Pa.
Member of the Steel Window Institute and Aluminum Window Manufacturers Association

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Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind
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RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
Sall (Harry) & Co Inc 964 N Darien Philadelphia Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc 300 W Front Harvard Ill
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
US Sliding Door Corp 241 Lexington Av New York 16 NY
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH
WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN
Western Prods Inc New Castle Ind
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

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Bead Chain Mfg Co Bridgeport Conn
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REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Venetian Blind Corp 600 Camelia Berkeley Cal

HARDWARE, WINDOW

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ACME APPLIANCE MFG CO 35 S RAYMOND AV PASADENA 1 CAL
Acorn Mfg Co Mansfield Mass
ADAMS RITE MFG CO 540 W CHEVY CHASE DR GLENDALE 4 CAL
Ajax Hdwe Mfg Corp 4851 Valley Blvd Los Angeles 32 Cal
American Cabinet Hdwe Corp 416 S Main Rockford Ill
ARROW LOCK CORP 762 WYTHE AV BROOKLYN 11 NY
Austin & Eddy Inc Box 1504 Boston 4 Mass
Austral Sales Corp 101 Park Av New York 17 NY
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
Champion Hdwe Co Geneva Ohio
Cipco Corp 22nd & Cole St Louis 6 Mo
Clinton Lock Co Clinton Iowa
CORBIN (P&P) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Detroit Hdwe Mfg Co 1320 Mt Elliott Detroit 7 Mich
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Erco Mfg Co 2368 N Elston Chicago 14 Ill
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS 2 MICH
GRANT PULLEY & HDWE CORP 31-63 WHITESTONE PKWY FLUSHING LI NY
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Ideal Brass Wks Inc 250 E Fifth Av St Paul 1 Minn
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
Lawrence Bros Sterling Ill
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal
Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal
Penn Hdwe Co Spruce St Reading Pa
Petko Industries 1107 E 8th Los Angeles 21 Cal
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Reese Padlock Co 126 Sherman Lancaster Pa
Rockford Brass Wks Rockford Ill
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Safe Padlock & Hdwe Co Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Sharon Hdwe Mfg Co Sharon Pa
Shelby Metal Prods Co Shelby Ohio
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Slaymaker Lock Co 1155 S West End Lancaster Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN
Star Metal Prods Inc 370 Butler Brooklyn 17 NY
Steel Window Prods Co 540 Nassau Rd Roosevelt LI NY
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
Sun Metal Prods Co 3319 W Carroll Chicago 24 Ill
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
Vulcan Metal Prods 2801 6th Av S Birmingham Ala
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YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

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SLASH LIGHTING COSTS with FREE SUN LIGHT

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Use as replacement for standard glass.

NEWEST USE: To replace glass in Jalousie or Louver Windows. "Lets light in; keeps sight out," 5 colors.

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IMPROVED 78" 3 lb. MAGNESIUM LEVEL ONLY $17.45

Plain Electroplate Finish 78" $15.95—72" $15.45
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For setting door jambs and window frames! No other like it. 4 Plumbs, 2 LEVELS. Use either end or edge up. Weighs only 3 lbs. I-Beam type—stronger than aluminum. Direct from factory. Patented.

NO FACTORY REPAIRS NEEDED

Spirit tube holder (50¢) replaced with screwdriver. An ideal gift for any occasion. We pay shipping when order includes check or M.O. Also sent C.O.D.

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Master Lock Co 2600 N 32nd Milwaukee 10 Wis
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Safe Padlock & Hdwe Co Lancaster Pa
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Coburn Mfg Co Whitewater Wis
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ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
Excelsior Stove & Mfg Co Quincy Ill
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Philadelphia Electrical Mfg Co 1200 N 31st Philadelphia 21 Pa
Rutenber Electric Co Inc Marion Ind
Thermoray Corp 141 E 44th New York 17 NY
Wayne Home Equipment Co 801 Glasgow Ft Wayne Ind

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American Gas Machine Co 505 Front Albert Lea Minn
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 22 PA
Armstrong Prods Corp Huntington 12 W Va
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Birmingham Stove & Range Co Box 2593 Birmingham 2 Ala
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO
Chattanooga Royal Co East Chattanooga Tenn
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS
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Dearborn Stove Co 1700 W Commerce Dallas Tex
Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind
Dravo Corp Dravo Bldg 5th & Liberty Avs Pittsburgh 22 Pa
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL
Excelsior Stove & Mfg Co Quincy Ill
Florence Stove Co School St Gardner Mass
Folsom Co Inc 8104 Oak Lane Dallas 10 Tex
Glenwood Range Co 300 W Water Taunton Mass
Gray & Dudley Co 2300 Clifton Rd Nashville 3 Tenn
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HARRISON STEEL CABINET CO 4718 W 5TH AV CHICAGO 44 ILL
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Locke Stove Co 114 W 11th Kansas City 6 Mo
Lonergan Mfg Co Clark St Albion Mich
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo
National Radiator Co 223 Central Av Johnson Pa
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich
OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
Pioneer Water Heater Corp 3131 San Fernando Rd Los Angeles 65 Cal
Portable Heater Co 814 Engineers Bldg Cleveland Ohio
Preway Inc 1430 Second N Wisconsin Rapids Wis
Quaker Mfg Co 1147 Merchandise Mart Chicago Ill
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Royal Jet Inc 1024 Westminster Alhambra Cal
Silent Sioux Corp 208 W College Av Orange City Iowa
TEMCO INC 4104 PARK AV NASHVILLE 9 TENN
Trane Co 3rd & Cameron LaCrosse Wis
Tri-Therm Heater Co 40 Howard Somerville 44 Mass
Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Young Radiator Co 709 S Marquette Racine Wis
Zink (John) Co 4401 S Peoria Tulsa 1 Okla

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American & Southern Corp 1000 6th South Nashville 10 Tenn
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS
Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind
Dravo Corp Dravo Bldg 5th & Liberty Avs Pittsburgh 22 Pa
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
Excelsior Stove & Mfg Co Quincy Ill
Florence Stove School St Gardner Mass
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
International Oil Burner Co 3800 Park Av St Louis 10 Mo
Karr Range Co 7th & Harrison Belleville Ill
Kresky Mfg Co Petaluma Cal
Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 7 Wis
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
Lonergan Mfg Co Clark St Albion Mich
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo
Monarch Malleable Iron Range Co Beaver Dam Wis
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
Preway Inc 1430 Second N Wisconsin Rapids Wis
Quaker Mfg Co 1147 Merchandise Mart Chicago Ill
Silent Sioux Corp 208 W College Av Orange City Iowa
US Machine Corp Lebanon Ind
Washington Stove Wks Box 919 Everett Wash
Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind
YORK-SHIPLEY INC BOX 349 YORK PA

HEATERS, PORTABLE ELECTRIC

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Cavalier Corp Chattanooga Tenn

Continental Radiant Glass Heating Corp 1 E 35th New York 17 NY
Dry Clime Lamp Corp Greensburg Ind
Economaster Prods Co Inc Nashville Tenn
ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO
Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY
GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL
HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY
Imperial Motor Corp Kingston Pa
Kneisley Electric Co 2501-9 LaGrange Toledo 3 Ohio
LaSalle Prods Inc 143 Seneca Buffalo 3 NY
Lawson Mfg Co Wilkinsburg Pa
MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY
Metal Prods Mfg Co 1762 Ranier Seattle 44 Wash
National Die Casting Co Touhy Av at Lawndale Chicago Ill
National Ideal Co 914 Summit Toledo 4 Ohio
Noblitt-Sparks Industries Inc Columbus Ohio
Radiant Heater Corp 1 E 35th New York NY
Rutenber Electric Co Inc Marion Ind
Shepler Mfg Co 1229 Goebel Pittsburgh 33 Pa
Superior Electric Prods Corp 1507-17 Independence Cape Girardeau Mo
Swartzbaugh Mfg Co Toledo Ohio
Tennessee Valley Associated Marketers Nashville Tenn
THERMADOR ELECTRIC MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL
Thermoray Corp 141 E 44th New York 17 NY
Titan Mfg Co Inc 701 Seneca Buffalo 10 NY
Wells Lamp Corp Buffalo NY
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO

HEATERS, ROOM

Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa
Adams (Frank) Electric Co 3650 Bell Av St Louis Mo
Armstrong Prods Corp Box 940 Huntington 12 W Va
Atlanta Stove Wks 112 Krog St NE Atlanta Ga
BRYANT HEATER DIV AFFILIATED GAS EQUIP INC 17825 ST CLAIR CLEVELAND OHIO
Cavalier Corp Chattanooga Tenn
Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN
David-Maydole Tool Corp Hurlburt & Forsythe Norwich NY
Dearborn Stove Co 1700 W Commerce Dallas Tex
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
ELECTROMODE CORP 49 CROUCH ROCHESTER 3 NY
Evans Prods Co 13101 Eckles Rd Plymouth Mich
Excelsior Stove & Mfg Co Quincy Ill
Florence Stove Co School St Gardner Mass
Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY
Kalamazoo Stove & Furnace Co 56 Rochester Av Kalamazoo Mich
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
LaSalle Prods Inc 143 Seneca Buffalo 3 NY
LITTLE (H C) BURNER CO INC BOX 60 SAN RAFAEL CAL
Locke Stove Co 114 W 11th Kansas City Mo
MARKET ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY
National Enameling & Stamping Co Milwaukee Wis
OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO
Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO
Preway Inc 1430 Second St N Wisconsin Rapids Wis
Quaker Mfg Co 1147 Merchandise Mart Chicago Ill
Queen Stove Wks 505 Front Albert Lea Minn
Reznor Mfg Co Mercer Pa
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SHEPLER MFG CO 1229 GOEBEL PITTSBURGH 33 PA
Silent Glow Oil Burner Corp 1475 Park Hartford Conn
Tesco Inc 110 S Norfolk Tulsa Okla
US Machine Corp Lebanon Ind
Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

HEATERS, TANKLESS WATER

BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
General Fittings Co 123 Georgia Av Providence 5 RI
Midget Heater & Specialty Co 2801 Pacific Av Tacoma Wash
Red Spot Electric Co 7405 S Tacoma Av Tacoma Wash
Taco Heaters Inc 137 South Providence RI
THRUSH (H A) CO PERU IND
TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH
Triplex Heating Specialties Co Box 33 Peru Ind

HEATERS, UNIT

Automatic Gas Equipment Co 301 Brushton Av Pittsburgh 21 Pa
Broan Mfg Co Inc 1669 N Water Milwaukee 2 Wis
Carrier Corp 300 S Geddes Syracuse 1 NY
Clarage Fan Co 719 Porter Kalamazoo Mich
James B Clow & Sons 201-299 N Talman Av Chicago 80 Ill
Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
Cutler Hammer Inc 201 N 12th Milwaukee 1 Wis
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
Delta Heating Corp 1 Cole Trenton 8 NJ
Earle Kitchen Unit Co 116 E 63rd New York 21 NY
ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ
ELECTROMODE CORP 49 CROUCH ROCHESTER 3 NY
Fedders-Quigan Corp Lalor & Hancock Trenton NJ
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
Hartzell Propeller Fan Co Div Castle Hills Corp Piqua Ohio
Henry Furnace Co Medina Ohio
HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
McCord Corp Riopelle at East Grand Blvd Detroit Mich
McQuay Inc 1600 Broadway NE Minneapolis 13 Minn
Muelier Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
Modine Mfg Co 1300 DeKoven Av Racine Wis
MURRAY (D J) MFG CO 1024 THIRD WAUSAU WIS
National Radiator Co 223 Central Av Johnson Pa
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal
Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky
REZNOR MFG CO DAVID ST MERCER PA
Rittling Corp Rand Bldg Buffalo 3 NY
ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Trane Co 3rd & Cameron LaCrosse Wis
United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn
Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal
Webster (Warren) & Co 17th & Federal Camden 5 NJ
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass
Young Radiator Co 709 S Marquette Racine Wis

HEATERS, WALL

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo
Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa
Armstrong Prods Corp Huntington 12 W Va
Cavalier Corp Chattanooga Tenn
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS
Coroaire Heater Corp Hanna Bldg Cleveland Ohio
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
Delta Heating Corp 1 Cole Trenton 8 NJ
ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ
ELECTROMODE CORP 49 CROUCH ROCHESTER 3 NY
Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY
General Water Heater Corp 1 E Magnolia Blvd Burbank Cal
Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
La Salle Prods Inc 143 Seneca Buffalo 3 NY
MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO
OHIO FOUNDRY & MFG CO STEUBENVILLE OHIO
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal
Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky
Royal Jet Inc 1024 Westminster Alhambra Cal
SHEPLER MFG CO 1229 GOEBEL PITTSBURGH 33 PA
Tennessee Enamel Mfg Co 4104 Park Av Nashville 9 Tenn
THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES 22 CAL
Thermoray Corp 141 E 44th New York 17 NY
Titan Mfg Co 701 Seneca Buffalo 10 NY
Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Zink (John) Co 4401 S Peoria Tulsa 1 Okla

HEATERS, WATER

Adams Co Box 268 Dubuque Iowa
Airtemp Div Chrysler Corp 1610 Webster Dayton 1 Ohio
ALDRICH CO DIV BREEZE CORP INC WYOMING ILL
American Gas Machine Co 505 Front Albert Lea Minn
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
American & Southern Corp 1000 6th South Nashville 10 Tenn
Atlanta Stove Wks 112 Krog NE Atlanta Ga
Automatic Electric Co Inc Pottstown Pa
Bard Mfg Co Bryan Ohio
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Brown Stove Wks Inc Cleveland Tenn
BRYANT HEATER DIV AFFILIATED GAS EQUIP INC 17825 ST CLAIR CLEVELAND OHIO
Clayton & Lambert Mfg Co 1701 Dixie Hwy Louisville 10 Ky
Cleveland Heater Co 2310 Superior Av Cleveland 14 Ohio
Cleveland Steel Prods Co Torridheet Div 15801 Brookpark Rd Cleveland 11 Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
COLEMAN CO 250 N ST FRANCIS WICHITA 1 KAN
Colloid Equipment Co Inc 19 Murray New York 7 NY
Combustion Engineering Inc 200 Madison Av New York 16 NY
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Crane Electric Industries Eugene Ore
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
Dearborn Stove Co 1700 W Commerce Dallas Tex
Deepfreeze Appliance Div Motor Prods Corp 2301 Davis North Chicago Ill
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind
Dowagiac Steel Furnace Co Dowagiac Mich
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
Economaster Sales Inc 120 9th Av N Nashville Tenn
Evans Prods Co 13101 Eckles Rd Plymouth Mich
Excelsior Stove & Mfg Co Quincy Ill
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
Fowler Mfg Co 2545 SE Gladstone Portland Ore
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
General Implement Corp Terminal Tower Cleveland 13 Ohio
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich
General Water Heater Corp 1 E Magnolia Blvd Burbank Cal
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn
HARRISON STEEL CABINET CO 4716 W 5TH AV CHICAGO ILL
Hedges (M M) Co 700 E Main Box 869 Chattanooga Tenn
Hilco Engineering Co Genoa City Wis
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
Hotstream Heater Co 2363 E 69th Cleveland Ohio
Hynes & Cox Electric Co Cohoes Rd & Elm Watervliet NY

IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
JOHNSON (S T) CO 940 ARLINGTON OAKLAND CAL
KELVINATOR DIV NASH-KELVINATOR CO 14250 PLYMOUTH RD DETROIT 32 MICH
Kewanee-Ross Corp 101 Franklin Kewanee Ill
Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ
Lawson Mfg Co Wilkinsburg Pa
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
McGraw Electric Co 5201 W 65th Chicago 38 Ill
Monarch Malleable Iron Range Co Beaver Dam Wis
Norge Heat Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich
Penberthy Injector Co 1242 Holden Av Detroit 2 Mich
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO
Petroleum Heat & Power Co Springfield Av Stamford Conn
Pioneer Water Heater Corp 3131 San Fernando Rd Los Angeles 65 Cal
Pittsburgh Water Heater Co 193 Chartiers Av Pittsburgh Pa
Quaker Mfg Co 1147 Merchandise Mart Plaza Chicago Ill
Ray Oil Burner Co 401-499 Bernal Av San Francisco 12 Cal
Republic Heater Corp 2231 Randolph Huntington Park Cal
RHEEM MFG CO 570 LEXINGTON AV NEW YORK NY
Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va
Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
Sav-U-Time Devices Inc 88 Manhattan Rochester 7 NY
Sepco Corp 860 Cross Pottstown Pa
SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND
Smith (A O) Corp Permaglas-Heating Div Kankakee Ill
Smith (A O) Corp 3533 N 27th Milwaukee 1 Wis
Standard Gas Equipment Corp Baltimore Md
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
Swartzbaugh Mfg Co Toledo Ohio
Taco Heaters Inc 137 South Providence RI
THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL
TIMKEN SILENT AUTOMATIC DIV TIMKEN DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH
Tri-Therm Heater Co 40 Howard Somerville 44 Mass
US Porcelain Enamel Co 4635 E 52nd Dr Los Angeles 22 Cal
Universal Major Electric Appliance Co Box 119 Lima Ohio
Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal
Vestal Mfg Co Box 152 Sweetwater Tenn
Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio
Waldorf Heater Co Philadelphia 2 Pa
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
WHITE PRODS CORP 98 E MAIN MIDDLEVILLE MICH
Whitehead (Jud) Heater Co 4111 Broadway Oakland Cal

HEATING CONTROLS

BARBER-COLMAN CO 20 MILL ROCKFORD ILL
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Bessam Engineering Co 2528 Overlook Rd Cleveland 6 Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Detroit Controls Co 5900 Trumbull Av Detroit 8 Mich
General Controls Co Box 3517 Grand Central Sta Glendale 1 Cal
GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL
Hoffman Specialty Co 1001 York Indianapolis 7 Ind
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill
Mercoid Corp 4201 W Belmont Av Chicago 41 Ill
MINNEAPOLIS-HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN
National Radiator Co 223 Central Av Johnson Pa
Paragon Electric Co 1606 12th Two Rivers Wis
Penn Controls Inc Goshen Ind
Perfex Corp 500 W Oklahoma Milwaukee Wis
Powers Regulator Co 3400 Oakton Skokie Ill
Robertshaw-Fulton Controls Co Robertshaw Thermostat Div Youngwood Pa
Sarcotherm Controls Inc Empire State Bldg New York 1 NY
Soreng Prods Corp Schiller Park Ill
Spencer Thermostat Div Metals & Controls Corp 30 Forest Attleboro Mass
Taco Heaters Inc 137 South Providence RI
Taylor Instrument Cos Rochester NY
Webster (Warren) & Co 17th & Federal Camden 5 NJ
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
White Rodgers Electric Co 1209 Cass Av St Louis 6 Mo
Young Regulator Co 5209 Euclid Av Cleveland 3 Ohio

HEATING SYSTEMS, BASEBOARD

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BURNHAM CORP BOILER DIV 2 MAIN IRVINGTON NY
BUSH MFG CO 179 SOUTH ST WEST HARTFORD 10 CONN
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL
ELECTRIGLAS CORP NEW BRIDGE & WINDSOR RDS BERGENFIELD NJ
Fedders-Quigan Corp Lalor & Hancock Trenton NJ
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND
Moore Dry Kiln Co 1220 W State Jacksonville Fla
National Radiator Co 223 Central Av Johnstown Pa
Nesbitt (John J) Inc Stateroad 6 Pa
Premier Furnace Co Box 150 Dowagiac Mich
Radiant-Ray Radiation Inc 900 W Main New Britain Conn
Rittling Corp Rand Bldg Buffalo 3 NY
Utica Radiator Corp 2201 Dwyer Av Utica NY
VULCAN RADIATOR CO BOX L STA A HARTFORD CONN
Webster (Warren) & Co 17th & Federal Camden 5 NJ
Weil-McLain Co 641 W Lake Chicago Ill
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL
Young Radiator Co 709 S Marquette Racine Wis

HEATING SYSTEMS, ELECTRIC

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Electrend Prods Corp Box 110 St Joseph Mich
ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL

HEATING SYSTEMS, HOT WATER OR STEAM

ALDRICH CO WYOMING ILL
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Brower Mfg Co Box 251 Quincy Ill
Brownell Co 321 N Findlay Dayton 1 Ohio
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND OHIO
BURNHAM CO BOILER DIV 2 MAIN IRVINGTON NY
BUSH MFG CO 179 SOUTH ST WEST HARTFORD 10 CONN
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa
Cleveland Steel Prods Co 15801 Brookpark Rd Cleveland 11 Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Coal-O-Matic Stoker Co Main St Trucksville Pa
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL
Fedders-Quigan Corp Lalor & Hancock Trenton NJ
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
General Fittings Co 123 Georgia Av Providence 5 RI
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
Hedges-Walsh-Weidner Div Combustion Engineering Superheater Inc 208 Madison Av New York 16 NY
Heil Co 3000 W Montana Milwaukee 1 Wis
Hotstream Heater Co 2363 E 69th Cleveland 4 Ohio
International Heater Co Utica 2 NY
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
JOHNSON (S T) CO 940 ARLINGTON OAKLAND CAL
Kewanee-Ross Corp 101 Franklin Kewanee Ill
Kresno-Stamm Mfg Corp 400 Commercial Av Palisades Park NJ
Lookout Boiler & Mfg Co Chattanooga 1 Tenn
McCord Corp Riopelle at East Grand Blvd Detroit Mich
Mueller Climatrol Corp 2005 W Oklahoma Milwaukee 7 Wis
Munroe (R) & Sons Mfg Corp Smallman at 23rd Pittsburgh 22 Pa
Murray (D J) Mfg Co 1024 Third Wausau Wis
National Radiator Co Johnstown Pa
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich
Penn Boiler & Burner Mfg Corp Fruitville Rd Lancaster Pa
Persiro Mfg Corp 38 Keer Av Newark 5 NJ
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY
Seattle Boiler Wks Inc 5237 E Marginal Way Seattle 4 Wash
Taco Heaters Inc 137 South St Providence RI
THRUSH (H A) CO PERU IND
Trane Co 3rd & Cameron LaCrosse Wis
Triplex Heating Specialties Co Box 33 Peru Ind
United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn
UNITED STATES RADIATOR CORP BUHL BLDG DETROIT 31 MICH
Utica Radiator Corp 2201 Dwyer Av Utica NY
Wayne Home Equipment Co 801 Glasgow Ft Wayne Ind
Webster (Warren) & Co 17th & Federal Camden NJ
Weil-McLain Co 641 W Lake Chicago Ill
Will-Burt Co 12 Ray Orrville Ohio
Williams Oil-O-Matic Div Eureka-Williams Co 1101 E Bell Bloomington Ill
YORK-SHIPLEY INC BOX 349 YORK PA

HEATING SYSTEMS, RADIANT

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BRYANT HEATER DIV AFFILIATED GAS EQUIPT INC 17825 ST CLAIR CLEVELAND OHIO
BUNDY TUBING CO 8109 E JEFFERSON DETROIT MICH
Cannelton Sewer Pipe Co Cannelton Ind
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND
Homes Inc Ceil Heat Div 5212 Hemberg Dr Knoxville Tenn
Meadows (W R) Inc 2 Kimball Elgin Ill
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
National Radiator Co 223 Central Av Johnstown Pa
Reflectotherm Inc 26 E University Av Cincinnati 19 Ohio
Rochester Prods Div GM 1000 Lexington Rochester NY
Taco Heaters Inc 137 South St Providence RI
Thermoray Corp 141 E 44th New York 17 NY
THRUSH (H A) & CO PERU IND
Utica Radiator Corp 2201 Dwyer Av Utica NY

HEATING SYSTEMS, RADIANT PANELS

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Cannelton Sewer Pipe Co Inc 4th & Washington Cannelton Ind
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Continental Radiant Glass Heating Corp 521 Fifth Av New York 17 NY
ELECTRIGLAS CORP NEW BRIDGE & WINDSOR RDS BERGENFIELD NJ
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill
Homes Inc Cecil Heat Div 5213 Homberg Dr Knoxville Tenn
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
United States Rubber Co 1230 Av of the Americas New York 20 NY

HEATING SYSTEMS, WARM AIR

American Foundry & Furnace Co 125 N McClun Bloomington Ill
American Gas Machine Co 505 Front Albert Lea Minn
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND OHIO
Carrier Corp 302 S Geddes Syracuse NY
Century Engineering Corp 401 Third SE Cedar Rapids Iowa
Chicago Down Draft Furnace Co 321 S Sangamon Chicago Ill
Coal-O-Matic Stoker Co Main St Trucksville Pa
COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN
Conco Engineering Wks Div Conkey (H D) Co Mendota Ill
Coraaire Heater Corp Hanna Bldg Cleveland Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal
Delta Heating Corp 1 Cole Trenton 8 NJ
Detroit-Michigan Stove Co 6900 E Jefferson Detroit Mich
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY
Excelsior Stove & Mfg Co Quincy Ill
Fluid Heat Div Anchor Post Prods Inc Baltimore Md
Forest City Foundries Inc 2500 W 27th Cleveland Ohio
Fox Furnace Co Elyria Ohio
Front Rank Mfg Co Div Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ
General Motors Corp Lyell & Whitney Rochester NY
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
Henry Furnace Co Medina Ohio
Hoffman Specialty Co 1001 York Indianapolis 7 Ind
Holland Furnace Co Holland Mich
Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal
International Heater Co Utica 2 NY
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO
JACKSON & CHURCH CO 321 N HAMILTON SAGINAW MICH
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal
Kreano-Stamm Mfg Co 400 Commercial Av Palisades Park NJ
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL
MAJESTIC CO HALL ST HUNTINGTON IND
MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY
Mueller Climatrol Corp 2005 W Oklahoma Milwaukee 7 Wis
Norge-Heat Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO

Norman PRODUCTS COMPANY
1150 Chesapeake Avenue
Columbus 12, Ohio
Manufacturers of a Complete Line of Gas Heating and Air Conditioning Equipment.

Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Oakland Foundry Co Belleville Ill
Patten (J V) Co 550 DeKalb Av Sycamore Ill
Payne Furnace & Suppy Co 338 N Foothill Blvd Beverly Hills Cal
Penn Boiler & Burner Mfg Co Fruitville Rd Lancaster Pa
PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO
Persiro Mfg Corp 38 Keer Av Newark 5 NJ
Premier Furnace Co Box 150 Dowagiac Mich
Quiet Automatic Burner Corp Montclair NJ
REZNOR MFG CO MERCER PA
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Royal Jet Inc 1024 W Westminster Alhambra Cal
Schelm Bros Inc 201 Anna East Peoria 8 Ill
Silent Sioux Corp 208 W College Av Orange City Ia
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO
Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio
Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind
Wheeling Furnace Corp Martins Ferry Ohio
Williams Oil-O-Matic Div Eureka-Williams Corp 1201 E Bell Bloomington Ill
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO
YORK-SHIPLEY INC BOX 349 YORK PA

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HINGES, BALL BEARING

ALITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa
Miracle Hinge Co Monticello NY
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Rixon (Oscar C) Co 4430 W Carroll Chicago Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN

HINGES, BUTT

Acorn Mfg Co Mansfield Mass
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Cabinet Hdwe Corp 416 S Main Rockford Ill
Consolidated Iron Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
Earle Hdwe Mfg Co Noble & Gregg Reading Pa
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Genesco Tools 1830 N Kostner Av Chicago 39 Ill
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
Grand Specialties Co 3101 W Grand Chicago Ill
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Hardware Prods Co Inc 42 Broadway New York 4 NY
Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles Cal
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
Lawrence Bros Sterling Ill
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
NO-MORTISE HINGE CORP BOUND BROOK NJ
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York NY
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Peako Industries 1107 E 8th Los Angeles 21 Cal
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
Sharon Hdwe Mfg Co Sharon Pa
Slaymaker Lock Co 115 S West End Av Lancaster Pa
STANLEY WKS 111 ELM NEW BRITAIN CONN

HINGES, CONTINUOUS

HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids Mich
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
STANLEY WKS 111 ELM NEW BRITAIN CONN

HINGES, FLOOR

Bommer Spring Hinge Co Landrum SC
Chicago Spring Hinge Co 1500-02 Carroll Av Chicago Ill
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL MFG CO STERLING ILL
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Shelby Metal Prods Co Shelby Ohio
Shelby Spring Hinge Co Shelby Ohio
STANLEY WKS 111 ELM NEW BRITAIN CONN

HINGES, GATE

Acorn Mfg Co Mansfield Mass
Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Chicago Spring Hinge Co 1500 Carroll Av Chicago 7 Ill
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA ILL
Lawrence Bros Sterling Ill
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
NATIONAL MFG CO STERLING ILL
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

HINGES, INVISIBLE

American Cabinet Hdwe Corp 416 S Main Rockford Ill
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
SOSS MFG CO 21777 HOOVER RD BOX 38 HARPER STA DETROIT MICH
STANLEY WKS 111 ELM NEW BRITAIN CONN
WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH

HINGES, SPRING, DOOR

American Cabinet Hdwe Corp 416 S Main Rockford Ill
Bommer Spring Hinge Co Landrum SC
Chicago Spring Hinge Co 1500-02 Carroll Av Chicago 7 Ill
Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Lawrence Bros Sterling Ill
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Miracle Hinge Co Monticello NY
NATIONAL MFG CO STERLING ILL
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sharon Hdwe Mfg Co Sharon Pa
Shelby Spring Hinge Co Shelby Ohio
STANLEY WKS 111 ELM NEW BRITAIN CONN

HINGES, STRAP

Acorn Mfg Co Mansfield Mass
Brainerd Mfg Co East Rochester NY
Champion Hdwe Co Geneva Ohio
Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
DEXTER LOCK CO SUBSIDIARY NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Genesco Tools 1830 N Kostner Av Chicago 39 Ill
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 136 VICTOR ST LOUIS 4 MO
Johnson Industries Inc 2112 S 7th St Louis 4 Mo
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Old Guilford Forge Guilford Conn
Peters (James) & Son 1904 N Front Philadelphia Pa
Reflecto Letters 411 E 101st New York 29 NY
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Sharon Hdwe Co Sharon Pa
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

HOISTS, CHAIN

Chisholm Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio
Coffing Hoist Co 800 Walters Danville Ill
Moore Dry Kiln Co 1220 W State Jacksonville 1 Fla
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
Reading Crane & Hoist Corp 2100 Adams Reading Pa
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
Round Chain Cos Broadway Chaincraft Rd Cleveland 5 Ohio
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wright Hoist Div American Chain & Cable Co York Pa
YALE & TOWNE MFG CO 11200 ROOSEVELT BLVD PHILADELPHIA PA

HOISTS, ELECTRIC

American Chain & Cable Co Inc 929 Connecticut Av Bridgeport 2 Conn
American Engineering Co 2446 Aramingo Av Philadelphia 25 Pa
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill
Chisholm-Moore Hoist Div Columbus-McKinnon Chain Corp Fremont Av Tonawanda NY
Coffing Hoist Co 800 Walters Danville Ill
Cohn (E) & Sons 900 "L" St SW Cedar Rapids Iowa
Detroit Hoist & Machine Co 8207 Morrow Detroit 11 Mich
Electro-Lift Inc 30 Church New York 7 NY
King Mfg Corp 3158 W Chicago Av Chicago 22 Ill
Reading Crane & Hoist Corp 2100 Adams Reading Pa
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
Round Chain Cos Broadway & Chaincraft Rd Cleveland 5 Ohio
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
Stimmel Winch Co Inc 37-24 23rd Long Island City 1 NY
Universal Hoist & Mfg Co Cedar Falls Iowa
Whiting Corp 16516 Lathrop Av Harvey Ill
Wright Hoist Div American Chain & Cable Co York Pa

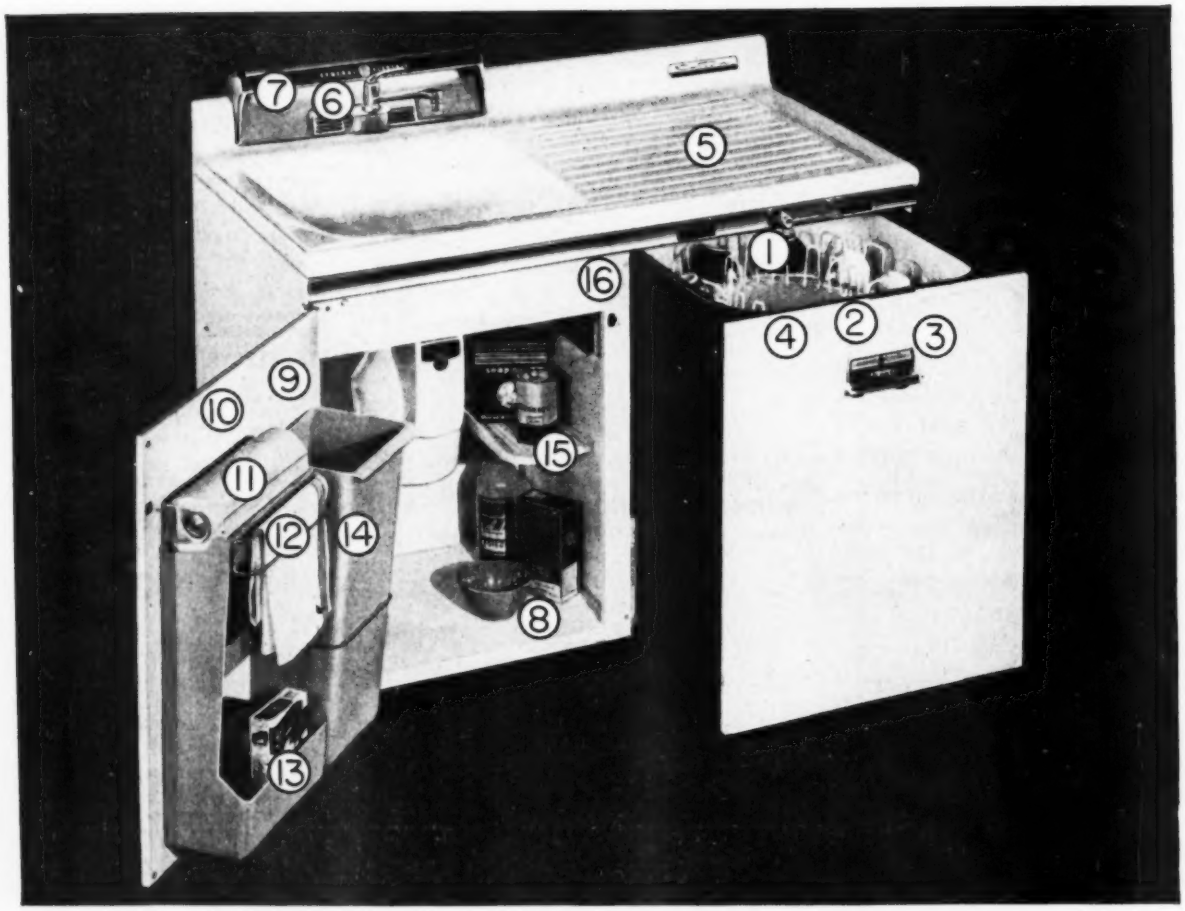
HOISTS, MECHANICAL POWERED

ALLIS CHALMERS MFG CO 1126 S 70TH MILWAUKEE WIS
American Hoist & Derrick Co St Paul Minn
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio
Clyde Iron Wks Inc 29th Av & W Washington Duluth 1 Minn
Coffing Hoist Co 800 Walters Danville Ill
CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA
Downs Crane & Hoist Co 540 W Vernon Av Los Angeles 27 Cal
Electro Lift Inc 30 Church New York 7 NY
Essick Mfg Co 1950 S Santa Fe Los Angeles Cal
Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa
Gifford-Wood Co 1 Hudson Av Hudson NY
HARNISCHFEGER CORP 4400 W NATIONAL AV MILWAUKEE 14 WIS
Hyster Co 2902 NE Clackamas Portland 8 Ore
Jaeger Machine Co 500 W Spring Columbus 1 Ohio
King Mfg Corp 3158 W Chicago Av Chicago 22 Ill

Big news from G. E. for

1 Build these profit-

New feature-packed 48" Electric Sink



General Electric's new custom model Electric Dishwasher-Sink changes the sink area in new homes from a work center to the glamour spot of the kitchen.

Let this feature-packed new appliance add the customer appeal you need for quick sales of your new homes.

1. New improved dishwasher racks. Amazing capacity! Easiest to load. No racks to lift or shift!

2. New improved dishwasher detergent cup—*optional second wash.* Cleanest, most sanitary dishwashing possible.

3. Selective control with Tel-a-Wash lights shows stages of cycle. Control provides completely automatic or manual operation as desired. Drying cycle can be used as *plate warmer!*

4. New silverware basket. Greater capacity. Holds full day's load. Silver loaded "points down" for safety and convenience.¶

5. New sink top—specially designed "no-drip" edge.¶

6. New single-control faucet, back-mounted for easy cleaning.

7. New built-in fluorescent light over sink bowl.

8. New and bigger under-sink storage.

9. Under-sink lighting—automatic, door operated.

10. Utility door—holds many accessories.

11. Convenient paper towel dispenser.

12. Special rack for hand towels.

13. Special racks for soaps and detergents.

14. Convenient, easily removable trash basket.

15. Extra intermediate shelf—specially for scouring materials.

16. Automatic touch latch on the door.

sales-minded builders!

makers into your homes!

2 New low cost Disposall®

Introducing the new FC-20, at a price you, as a builder can't afford to overlook!

Big capacity. Continuous feed. Quick, easy installation. Removable plug for dishwasher drain connection.

The FC-20 joins the de luxe models FA-4 and FA-45. De luxe models feature safety Twistop control, and written 5-year customer protection plan.

3 New variety in Dishwasher designs

Even one with a wood front!

What style does your customer want? G.E. has it! Models that fit to the right or left of sink! Models on wheels. Even models with wood fronts in knotty pine, birch, mahogany or oak!

Every model is a spacesaving under-counter model. 24" wide. Built-in models are pre-plumbed, easy to install. Free-standing model, with separate top, is also available.

Get more information. See G-E catalogue in Sweet's file, see your G-E distributor, or send this coupon.

General Electric Company
Electric Sink & Cabinet Department
Appliance Park, Louisville, Ky.

Please send me
. . . detailed information on Disposalls
. . . detailed information on Dishwashers
. . . name of nearest G-E distributor.

Name . . . . . .
Street . . . . . .
City . . . . . **State** . . . . . .

GENERAL ELECTRIC

Lewis-Shepard Prods Inc 125 Walnut Watertown 72 Mass
Louden Machinery Co 261 S Court Fairfield Iowa
Market Forge Co 35 Garvey Everett 49 Mass
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
Novo Engine Co Lansing 5 Mich
Ohio Hoist & Mfg Co Broadway & Chaincraft Rd Cleveland Ohio
Reading Crane & Hoist Corp 2100 Adams Reading Pa
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Shepard Niles Crane & Hoist Corp 410 Schuyler Av Montour Falls NY
Silent Hoist & Crane Co 875 63rd Brooklyn 20 NY
Smith's Hoist & Mfg Co Box 115 Cassopolis 6 Mich
Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY
Vulcan Iron Wks Co 1422 Stout Denver 2 Colo
Washington Iron Wks Seattle 4 Wash
Whiting Corp Harvey Ill
Wright Hoist Div American Chain & Cable Co Inc 1100 E Princess York Pa
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

HOISTS, PORTABLE

American Hoist & Derrick Co 635 Robert St Paul 4 Minn
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Clipper Mfg Co 2800 Warwick Kansas City Mo
Coffing Hoists Co 800 Walters Danville Ill
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Downs Crane & Hoist Co 540 W Vernon Av Los Angeles 37 Cal
Electro-Lift Inc 30 Church New York 7 NY
King Mfg Corp 3518 W Chicago Av Chicago 22 Ill
Market Forge Co 35 Garvey Everett 49 Mass
Reading Crane & Hoist Corp 2100 Adams Reading Pa
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY

HOISTS, SKIP

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE WIS
American Hoist & Derrick Co 635 Robert St Paul Minn
Appley (J W) & Son Inc 831 9th N St Petersburg Fla
BESSER MFG CO ELM ST ALPENA MICH
Brady Conveyors Corp 20 W Jackson Chicago 4 Ill
Downs Crane & Hoists Co 540 W Vernon Av Los Angeles 37 Cal
Fairfield Engineering Co 324 Barnhart Marion Ohio
Fleming Mfg Co Cuba Mo
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo
Gifford-Wood Co 1 Hudson Av Hudson NY
Godfrey Conveyor Co 1301 Wolf Elkhart Ind
Hyster Co 2902 NE Clackamas Portland 8 Ore
Jeffrey Mfg Co 935 N 4th Columbus Ohio
Link-Belt Co 301 W Pershing Chicago 9 Ill
Nordberg Mfg Co Chase & Oklahoma Avs Milwaukee 7 Wis
Silent Hoist & Crane Co 875 63rd Brooklyn 20 NY

HOISTS, TRUCK

Anthony Co Streator Ill
Cemco Industries Inc Galion Ohio
Galion Allsteel Body Co Galion Ohio
Heil Co 3000 W Montana Milwaukee Wis
Hercules Steel Prods Corp Galion Ohio
Hyster Co 2902 NE Clackamas Portland 8 Ore
Kwik-Mix Co Port Washington Wis
Little Giant Prods Inc Peoria 3 Ill
Market Forge Co 35 Garvey Everett 49 Mass
Marion Metal Prods Co Cheney Av at Otis Marion Ohio
Perfection Steel Body Co Galion Ohio
St Paul Hydraulic Hoist Div Wood (Gar) Industries Inc 2207 University Av SE Minneapolis 14 Minn
Saagen Derrick Co 3101 W Grand Av Chicago 22 Ill
Shaw Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
Silent Hoist & Crane Co 875 63rd Brooklyn 20 NY
Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY
Wood (Gar) Industries Inc Detroit Mich
YALE & TOWNE MFG CO 11500 ROOSEVELT BLVD PHILADELPHIA PA

HOLDERS, SAND PAPER

RED DEVIL TOOLS 130 COIT IRVINGTON NJ

HOME FREEZERS

Admiral Corp 3800 W Cortland Chicago Ill
Amana Society Amana Iowa
American Refrigerator & Machine Co North Minneapolis Minn
Ben-Hur Mfg Co 634 E Keefe Av Milwaukee 12 Wis
Coolerator Corp Box 399 Duluth Minn
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO
Deepfreeze Div Motor Prods Corp North Chicago Ill
DeLaval Separator Co New York NY
Esco Cabinet Co E Biddle at RR West Chester Pa
Fogel Refrigerator Co 5400 Eadom Philadelphia Pa
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
General Implement Corp Terminal Tower Cleveland 14 Ohio
General Refrigerator Corp 678 Broadway New York 12 NY
Gibson Refrigerator Co 515-615 W Williams Greenville Mich
Gilfillan Bros Inc Venice Blvd at Berendo Los Angeles Cal
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
International Harvester Co 180 N Michigan Av Chicago 1 Ill
Jordan Refrigerator Co 58th & Grays Av Philadelphia 43 Pa
KELVINATOR DIV NASH-KELVINATOR CO 14250 PLYMOUTH RD DETROIT 32 MICH
Kennedy Co 1620 Dime Bldg Detroit 26 Mich
King Refrigerator Corp 76-02 Woodhaven Blvd Glendale LI NY
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis
Masterfreeze Corp Sister Bay Wis
Maytag Co Newton Iowa
Norge Div Borg-Warner Corp Appliance Div Room 234 Merchandise Mart Plaza Chicago Ill
Philco Corp Tioga & "C" Sts Philadelphia 34 Pa
Portable Elevator Mfg Co Bloomington Ill
Quicfrez Inc Fond du Lac Wis
Robbins & Burke Inc Cambridge Mass
Seeger-Sunbeam Corp St Paul Minn
SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND
Sub-Zero Freezer Co Rice Lake Wis
THOR CORP 2115 S 54TH AV CHICAGO 50 ILL
Tyler Refrigerator Corp Lake St Niles Mich
Universal Major Electric Appliance Co Box 119 Lima Ohio
Victor Prods Corp 901 Pope Av Hagerstown Md
Ward Refrigerator & Mfg Co 6501 S Alameda Los Angeles Cal
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO
Wilson Refrigeration Inc Glenwood Av Smyrna Del

HONES

BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Carborundum Co Niagara Falls NY

HOOKS, PLASTIC

Columbus Plastic Prods Inc 1625 W Mound Columbus 4 Ohio

HOOKS & EYES, GATE

FRANTZ MFG CO 301 W 3RD STERLING ILL
Judd (H L) Co 87 Chambers New York 7 NY
Kee (F D) Mfg Co 700 Park Av Beatrice Neb
Larson (Charles O) Co Ave "G" & C&NW Ry Sterling Ill
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Washburn Co 28 Union Worcester 8 Mass

HOOKS & EYES, SCREW

Astrup Co 2937 W 25th Cleveland 13 Ohio
FRANTZ MFG CO 301 W 3RD STERLING ILL
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Judd (H L) Co 87 Chambers New York 7 NY
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Larson (Charles O) Co Av "G" & C&NW Ry Sterling Ill
Lawrence Bros Sterling Ill
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
United Screw & Bolt Corp Cleveland Div 3590 W 58th Cleveland 2 Ohio
Washburn Co 28 Union Worcester Mass

HOPPERS, AUTOMATIC WEIGHING

Butler Bin Co 945 Blackstone Av Waukesha Wis
CONSTRUCTION MACHINEY COS 420 VINTON WATERLOO IOWA
Johnson 4C Sl Co Box 71 Champaign Ill
Toledo Scale Co 1000 Telegraph Rd Toledo 1 Ohio
Worthington Pump & Machinery Corp Ransome Div Dunellen NJ

HOSE, AIR COMPRESSOR

Acme Rubber Mfg Co Box 1001 Trenton NJ
Boston Woven Hose & Rubber Co Box 1071 Boston 3 Mass
Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cincinnati Rubber Mfg Co 4900 Franklin Av Cincinnati 12 Ohio
Continental Rubber Wks Erie Pa
De Vilbiss Co 300 Phillips Toledo 1 Ohio
Gates Rubber Co 999 S Broadway Denver 17 Colo
Goodall Rubber Co 5 S 36th Philadelphia 4 Pa
Goodrich (B F) Co 500 S Main Akron 18 Ohio
Hewitt Rubber Div Hewitt-Robins Inc Central & Kensington Avs Buffalo 5 NY
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ
Republic Rubber Div Lee Rubber & Tire Corp Albert St. Youngstown 1 Ohio
Thermoid Co 200 Whitehead Rd Trenton 6 NJ
Union Rubber & Asbestos Co Trenton 6 NJ
United States Air Compressor Co 5300 Howard Av Cleveland Ohio
United States Rubber Co 1230 Av of the Americas New York 20 NY

HYDRANTS

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo
Columbiana Pump Co Columbiana Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Eddy Valve Co Waterford NY
Heller-Aller Co Napoleon Ohio
Knights (James) Co Wells & Church Sandwich Ill
Murdock Mfg & Suppy Co 426-30 Plum Cincinnati 2 Ohio
Woodford Hydrant Co Des Moines Iowa

HYDRAULIC TAIL GATES

Anthony Co Inc Streator Ill
Cemco Industries Inc Galion Ohio
Day Co 306 W 69th Chicago 21 Ill
Fruehauf Trailer Co Detroit Mich
Heil Co 3000 W Montana Milwaukee 2 Wis
Hercules Steel Prods Corp Galion Ohio
Marion Metal Prods Co Cheney Av at Otis St Marion Ohio
Perfection Steel Body Co Galion Ohio

INCINERATORS

Adams Co Box 268 Dubuque Iowa
American Incinerator Corp 6441 Hastings Detroit 11 Mich
Bowser Inc Incinerator Div 4209 Sycamore Cairo Ill
Brule Incinerator Corp 407 S Dearborn Chicago 5 Ill
Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill
Coraire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
Cribben & Sexton Co 700 N Sacramento Blvd Chicago 12 Ill
Detroit-Michigan Stove Co 6900 E Jefferson Detroit 7 Mich
Donley Bros Co 14910 Miles Av Cleveland 5 Ohio
Dowagiac Steel Furnace Co Dowagiac Mich
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich
Ewing Incinerator Co 5121 N Ravenswood Chicago Ill
Fiske (J W) Iron Wks 78 Park Pl New York 7 NY
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gasinator Mfg Co 2108 Payne Av Cleveland Ohio
Gichner Inc 1900 Kendall NE Washington 2 DC
Goder Incinerator Corp 407 S Dearborn Chicago 5 Ill

Goder (Joseph) Incinerators 5121 N Ravenswood Chicago 40 Ill
Henry Furnace Co Medina Ohio
Holland Furnace Co Holland Mich
Houston Blow Pipe & Sheet Metal Wks Houston Tex
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill
Incinerator Prods Co 667 S Post Av Detroit 17 Mich
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Kerner Incinerator Div Morse-Boulger Destructor Co 205 E 42nd New York 17 NY
King Stove & Range Co Sheffield Ala
Locke Stove Co 114 W 11th Kansas City 5 Mo
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo
MAJESTIC CO HALL ST HUNTINGTON IND
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis
Olsen (C A) Mfg Co Filbert St Elyria Ohio
Pittsburgh Incinerator Co 131 Beam Way Pittsburgh 11 Pa
Seattle Boiler Wks Inc 5237 E Marginal Wy Seattle 4 Wash
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY
Valley Welding & Boiler Co Calcinator Div 27th & Water Bay City Mich
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

INSECTICIDES

Adco Inc Sedalia Mo
Agkem Inc Div of Kalo Co 506 Maine Quincy Ill
American Agricultural Chemical Co 50 Church New York 7 NY
American Cyanamid Co 30 Rockefeller Plaza New York NY
American Oil Co American Bldg Baltimore 2 Md
Asesto Mfg Corp 131 Wabash Michigan City Ind
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Bengal Co 214 N Nichols Av New York 29 NY
Bonhide Chemical Co 284 N Genesee Utica 4 NY
Boyer Chemical Laboratory Co 2232 S Wabash Chicago 16 Ill
Boyle-Midway Inc 22 E 40th New York 16 NY
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn
California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal
Camp Chemical Co Inc 1560-62 62nd Brooklyn 19 NY
Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Carbolineum Wood Preserving Co 508 W Highland Av Milwaukee 3 Wis
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Chemical Supply Co 225 Plymouth Bldg Cleveland 15 Ohio
Coopers Creek Chemical Corp West Conshohocken Pa
Crescent Prods Co 315 N 14th Terre Haute Ind
Doggett-Pfeil Co Springfield NJ
Dow Chemical Co Midland Mich
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Gordon (George C) Chemical Co 1100 Hickory Kansas City 7 Mo
Gulf Oil Corp Grant & Seventh Pittsburgh Pa
Harris Prods Co Inc Miami Beach Fla
Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ
Koppers Co Inc Koppers Bldg Pittsburgh Pa
Lilly Prods Co Attleboro Mass
Linck (O E) Co Inc Route 46 & Valley Rd Clifton NJ
Meinhardt (J A) & Co 2622 S Shields Chicago Ill
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia Pa
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
PITTSBURGH PLATE GLASS CO 632 PORT DUQUESNE BLVD PITTSBURGH 22 PA
Plunkett Chemical Co 3500 S Morgan Chicago Ill
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Puritan Chemical Co Peters At Haynes Atlanta 3 Ga
PYROFAX GAS CO UNION CARBIDE & CARBON CORP 30 E 42ND NEW YORK 17 NY
Rat Biscuit Co 19 N Limestone Springfield Ohio
Rotenone Prods Co 110 Eaton Pl East Orange NJ
Schutte Laboratories 910 7th Beaver Falls Pa
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sinclair Refining Co 630 Fifth Av New York NY
Socony-Vacuum Oil Co Inc 26 Broadway New York NY
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY
Standard Oil Co of Indiana 910 S Michigan Av Chicago Ill
Stark (N H) & Co Grafton Wis
Swift & Co Plant Food Div 4115 S Packers Chicago 9 Ill
Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

INSTRUMENTS, DRAFTING

Dietzgen (Eugene) Co 2425 N Sheffield Av Chicago Ill
Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
Higgins Ink Co Inc 271 Ninth Brooklyn 15 NY
Keuffel & Esser Co 300 Adams Hoboken NJ
Loomis Industries Box 442 Berkeley 1 Cal
Pickett & Eckel Inc 5 S Wabash Av Chicago 3 Ill
Post (Frederick) Co 155 E Ohio Chicago Ill
Smith (H E) Co Adrian Mich
Universal Drafting Machine Corp 7960 Loraln Av Cleveland 2 Ohio
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA
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Sta-Dri Masonry Paint—Decorates in white and 11 beautiful colors (at no extra cost). Holds 9 foot wall of water without leakage, even if applied inside a basement. Just mix with water and apply with brush or spray. Economical. Resists erosion. Stays white when wet. 5, 25, & 50 lb. packages.

Sta-Dri Link—Bonding agent assures lasting bond of plasters and concrete to *all* surfaces such as wood, glass, metal, glazed tile, hardboard, and slick, painted surfaces (except calcimine type paint), as well as old plaster, stone, concrete, and other masonry. Comes in 1 pt., 1 qt., 1 gal., & 50 gal. sizes.

Sta-Dri Clear-Coat—5% silicone water repellent for masonry. One treatment makes water bounce off porous masonry. Does not change natural color or texture. Dries out invisible. Stops efflorescence stains. Apply with brush or spray. Comes in 1 qt., 1 gal., 5 gal., 30 gal., and 55 gal. containers.

Sta-Dri Instant Water-Stop—Hydraulic cement that stops existing running water leaks immediately. Quick setting material for plugging holes and leaks in cisterns, silos, pools, and basements. Use with Sta-Dri Paint in solving serious below grade water pressure problems. In 1 lb. and 4 lb. cans.

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Data and Specifications

- **MASONRY PAINT**
- **LINK**
- **CLEAR-COAT**

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Bristol Co Waterbury 20 Conn
Colloid Equipment Co Inc 19 Murray New York 7 NY
Foxboro Co Foxboro Mass
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
MINNEAPOLIS HONEYWELL REGULATOR CO 2747 S 4TH AV MINNEAPOLIS MINN
Moore Dry Kiln Co 1220 W State Jacksonville 1 Fla
Newark Controls Co 15 Ward Bloomfield NJ
Powers Regulator Co 3400 Oakton Skokie Ill
Taylor Instrument Co Olsen & Ames Rochester 1 NY
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Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill
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WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA
WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS

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Protective Papers Inc Union Ill
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
REFLECTAL CORP 155 E 44TH NEW YORK 17 NY
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
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Lockport Cotton Batting Co Elmwood Av Lockport NY
Standard Cotton Prods Co Flint Mich
Taylor Bedding Mfg Co Taylor Tex
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

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Janesville Cotton Mills 100 E 69th Cincinnati 16 Ohio
Lockport Cotton Batting Co Elmwood Av Lockport NY
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Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
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Fiber-Glass Div Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio
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RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
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Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill
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Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex
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Badger Corrugating Co 1801-39 W Av S LaCrosse Wis
Baldwin-Hill Co Trenton 2 NJ
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Carney Co Inc 153 Chestnut Mankato Minn
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
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Available in Batts and Roll Blankets . . . smaller sized units, Bantam Batts . . . and Pouring Wool in pellet form.

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Kelley Island Lime & Transport Co 1122 Leader Bldg Cleveland 14 Ohio
Lehon Co 4425 S Oakley Chicago 9 Ill
Mineral Insulation Co Chicago Ridge Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Rock Wool Sales Inc Largo Ind
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Riverton Lime & Stone Co Inc Riverton Va
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis
Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill
Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn
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US Mineral Wool Co So Milwaukee Wis
Western Mineral Prods Co 1720 Madison NE Minneapolis Minn

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National Plywoods Inc 2710 Throop Chicago Ill
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Baldwin-Hill Co 500 Breunig Av Trenton 2 NJ
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Burton (S T) Co Builders Bldg Chicago 1 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Carney Co Inc 153 Chestnut Mankato Minn
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
Forty-Eight Insulations Inc Aurora Ill
Huntington Industries Inc 2368 Prospect Memphis Tenn
Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kans
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Pyl-O-Pak Insulation Co Inc Hartland Wis
Sealtite Insulation Mfg Co 115 Madison Waukesha Wis
Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mineral Wool Co South Milwaukee Wis

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Dodge Cork Co Inc Laurel & Manor Lancaster Pa

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ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 W Av S LaCrosse Wis
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BIRD & SON INC EAST WALPOLE MASS
Camp Co Inc 6958 S State Chicago 21 Ill
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CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
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Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
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FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
HOMASOTE CO FERNWOOD RD TRENTON 3 NJ
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Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
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Simpson Logging Co White Bldg Seattle 1 Wash
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

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B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Chicago Fire Brick Co 1416 N Elston Chicago 22 Ill
Coast Insulating Prods 2316 San Fernando Rd Los Angeles 5 Cal
Corson (G & W H) Inc Plymouth Meeting Pa
Green (A P) Fire Brick Co Mexico Mo
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Logan-Long Co 6600 S Central Av Chicago 38 Ill
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Standard Asbestos Mfg Co 860 W Evergreen Chicago 22 Ill

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Asbestos Supply Co S 10 Bernard Spokane Wash
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Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL
Intermountain Insulation Co Salt Lake City Utah
Munn & Steele Inc So Boston Mass
Perlite Mfg Co Arch St Ext Box 478 Carnegie Pa
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Schundler (F E) & Co Inc 504 Railroad Joliet Ill
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Vermiculite Prods Inc 515 Madison Kansas City Mo
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ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

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CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
Kelley Island Lime & Transport Co Leader Bldg Cleveland Ohio
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO

INSULATION, LOOSE FILL, MINERAL WOOL

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Alton Mineral Wool Co 2317 Whittemore Pl St Louis Mo
American Rock Wool Corp 20 N Wacker Dr Chicago Ill
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex
Badger Corugating Co 1801-39 West Av S LaCrosse Wis
Baldwin-Hill Co 500 Breunig Av Trenton 2 NJ
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK NY
Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky
Burton (S T) Co 228 N LaSalle Chicago 1 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Carney Co Inc 153 Chestnut Mankato Minn
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich
Chicago Fire Brick Co 1416 N Elston Chicago 22 Ill
Coast Insulating Prods 2316 San Fernando Rd Los Angeles Cal
Corson (G & W H) Inc Plymouth Meeting Pa
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL
Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kan
JOHNS-MANVILLE 22 E 40TH NEW YORK 16 NY
Kelley Island Lime & Transport Co 1122 Leader Bldg Cleveland 14 Ohio
LEHON CO 4425 S OAKLEY CHICAGO 9 ILL
Mineral Insulation Co Chicago Ridge Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Rock Wool Sales Inc Largo Ind
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO
Plastergon Wall Board Co 195 Philadelphia Av Buffalo 7 NY
Riverton Lime & Stone Co Inc Riverton Va
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis
Standard Asbestos Mfg Co 860 W Evergreen Chicago 22 Ill
Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mineral Wool Co South Milwaukee Wis

INSULATION, LOOSE FILL, WOOL CELLULOSE

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American Phenolic Corp 1830 S 54th Cicero 50 Ill
B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Chicago Fire Brick Co 1461 Elston Av Chicago 22 Ill
Dow Chemical Co 1000 Main Midland Mich
Mexico Refractories Co Love & Cole Mexico Mo
Quigley Co 527 Fifth Av New York 17 NY
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal
Sprayo-Flake Co 2727 W Irving Park Blvd Chicago Ill
Standard Asbestos Mfg Co 860 Evergreen Av Chicago 22 Ill

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CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Gilman Bros 100 Main Gilman Conn
INFRA INSULATION INC 10 MURRAY NEW YORK NY
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Lockport Cotton Batting Co Elmwood Av Lockport NY
Meadows (W R) Inc 2 Kimball Elgin Ill
National Plywoods Inc 2710 Throop Chicago Ill
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Protective Papers Inc Union Ill
REFLECTAL CORP 155 E 44TH NEW YORK 17 NY
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
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CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Gichner Inc 1900 Kendall NE Washington 2 DC
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Porete Mfg Co Porete Av North Arlington NJ
Simpson Logging Co White Bldg Seattle 1 Wash
Sprayo-Flake Co 2727 W Irving Park Blvd Chicago Ill
TECTUM CORP 105 S SIXTH NEWARK OHIO
Texas Vermiculite Co 303 Brazos Austin Tex
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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Green (A P) Fire Brick Co 1108 E Breckenridge Mexico Mo
Hollinshead (R M) Corp 840 Cooper Camden 2 NJ
Mexico Refractories Co Love & Cole Mexico Mo
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis
Smith & Kanzler Co E Linden Av Linden NJ
Sprayo-Flake Insulation Co 2727 W Irving Park Chicago Ill
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DuKane Corp 200 N 11th St Charles Ill
EDWARDS CO INC POST ROAD NORWALK CONN
Executone Co 415 Lexington Av New York 17 NY
Hirsch (S A) Mfg Co 8051 N Central Pk Skokie Ill
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Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
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Blackstone Corp Jamestown NY
Chicago Dryer Co 2210-20 N Pulaski Rd Chicago 39 Ill
Conlon Bros Mfg Co 4512 W Fillmore Chicago 50 Ill
Conlon Moore Corp 1824 S Laramie Cicero 50 Ill
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HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
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Ironite Inc 332 Cass Av Mount Clemens Mich
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Maytag Co Newton Iowa
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Speed Queen Corp Ripon Wis
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Beaux Art Crafts 2015 Brookfield Rd Pittsburgh 16 Pa
Bellkool Co 623 S State Appleton Wis
Belson Mfg Co East River Rd North Aurora Ill
Birmingham Ornamental Iron Co 4363 1st Av N Birmingham Ala
Blum Julius & Co Inc 532 W 22nd New York 11 NY
Braun (J G) Co 615 S Paulina Chicago 12 Ill
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Huntington Industries Inc 2368 Prospect Memphis Tenn
Hutchinson Co Box 11 Cedar Grove Sta Shreveport La
Klee & Sons Co Robertsville Ohio
Locke Mfg Co Ohio St Lodi Ohio
Logan Co 201 Cabel Louisville 6 Ky
Lorio Iron Wks New Orleans La
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Metal Crafters Inc E Av at 18th NE Cedar Rapids Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
National Ventilated Awning Co 605 Hall Dallas 1 Tex
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY
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Barrett (William L) Co 34 School Bristol Conn
Colloid Equipment Co Inc 19 Murray New York 7 NY
Electric Soldering Iron Co Deep River Conn
Hexacon Electric Co 161 W Clay Av Roselle Park NJ
Ideal Industries Inc 1335 Park Av Sycamore Ill
Lenk Mfg Co 30-38 Cummington Boston 15 Mass
STANLEY WKS 111 ELM NEW BRITAIN CONN
Turner Brass Wks 821 Park Av Sycamore Ill
Wall (P) Mfg Co 200 Erie Grove City Pa

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General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
Hexacon Electric Co 161 W Clay Av Roselle Park NJ
Ideal Industries Inc 1335 Park Av Sycamore Ill
Lenk Mfg Co 30-38 Cummington Boston 15 Mass
Lyon Rural Electric Co 2075 Moore San Diego 12 Cal
Vulcan Electric Co 88 Holton Danvers Mass

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American Ladder Co 5509 NW 7th Av Miami 38 Fla
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Breyer Bros Whiting & Co Shaler St Waupun Wis
Clay Equipment Corp Cedar Falls Iowa
Harris Inc 200 E Long Columbus Ohio
Holm's Mfg Co of Ohio 1340 Lakeshore Blvd Akron 1 Ohio
M & M Wire Clamp Co 983 17th Av Minneapolis 14 Minn
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
Patent Scaffolding Co 38-21 12th Long Island City 1 NY
STEEL SCAFFOLDING CO 856 HUMBOLDT BROOKLYN 22 NY
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Templeton Kenly & Co Gardner Rd Broadview Ill
United Metal Prods Inc 865 S High Akron 11 Ohio
WACO MFG CO 3565 WOODDALE AV MINNEAPOLIS 16 MINN

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Howard Mfg Co of California 2428 E 56th Los Angeles 58 Cal
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CROSSLY WINDOW CORP 3550 NW 71ST MIAMI FLA
DENISON CORP 1890 NE 146TH NORTH MIAMI 6 FLA
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
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KOTA PRODS INC COUNTY RD ROCKY POINT LI NY
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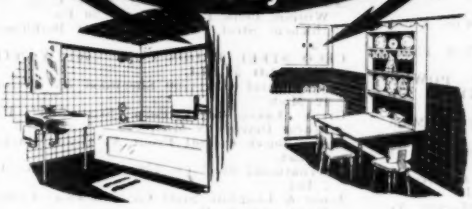
GET IMPORTANT TIME AND COST SAVINGS

Set Tile The MIRACLE® 'THIN-SET' Way



The Miracle 'Thin-Set' method of installing tile has been proven in thousands of installations in bathroom units and all kinds of other ceiling, floor, counter, and decorative areas, since 1937.

■ You quickly, permanently install tile over gypsum board, plaster, plywood, cement asbestos board, and concrete-vertical or horizontal surfaces.

■ You don't need heavy construction equipment or bulky setting materials. The Miracle 'Thin-Set' method reduces dead weight 12 lbs. per sq. ft. You cut way down on weight of materials to be transported, stored, hoisted, and handled.

■ You speed jobs substantially. You use more economical base materials. You cut costs as much as 20% per job!

■ All your setting material supplies may be secured from Miracle Adhesives Corporation: leveling, priming, setting, grouting, and caulking — made by Miracle Adhesives Corporation to work together to give you best possible jobs at lowest possible costs.

Important: Be sure the adhesive you use bears this hallmark, as issued by the United States Department of Commerce. Miracle Tile Cements comply with all Commercial Standard Specifications for "water resistant organic adhesives for installation of clay tile."

Miracle Clay Tile Cement available in floating type, buttering type and floor type — in light color or black. All are waterproof rubber resin adhesive formulations — the finest available.

FREE: New 20-page brochure describes Miracle 'Thin-Set' method of installing clay tile. First authoritative brochure on 'Thin-Set' method ever published, with 20 full pages of facts and illustrations. Shows how to install clay tile quickly, permanently at minimum cost. Detailed, 2-color isometric drawings. Write today for your free copy to Dept. AB-1.

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224 E. 53rd Street New York 22, N. Y.

CUTS COSTS! STRONGER JOB!

COFFMAN ORNAMENTAL IRON

Hang 8' or 9' post to soffit plate with lag screws. A choice of designs for all type construction.

Plumb post and wedge with broken brick, block, etc. Note legs extending below finished floor line.

Step forms built for standard steps, 7" risers x 12" treads. If you build brick steps, they will lay-up 7" x 12".

Final check before pouring concrete. Set-up time ONLY 40 MINUTES.

★ **Coffman Ornamental Iron is a packaged item—complete—ready to use.**

★ **Coffman Ornamental Iron can cost less than brick or wood because it eliminates expensive labor at the job site.**

★ **Coffman Ornamental Iron increases the value of the home—gives you additional profit.**

★ **There's no waiting for "custom-built" with Coffman. Order it from your BUILDING SUPPLY DEALER as you would a load of lumber.**

★ **Coffman Ornamental Iron cuts your costs, saves you time, makes you money!**

STANDARDIZE YOUR CONSTRUCTION FOR BONUS PROFIT

Standardize your steps (7" risers, 12" treads) and use built-in-place construction for bonus profits. For off-size steps, use the simple Coffman Rail-O-Graph, available at your dealer. Remember, Coffman 8'/0" Universal height porch posts will fit most all jobs (9'/0" for remodeling jobs).

PLAN & SELL NEW HOMES NOW!

FREE . . . Write for descriptive literature and prices on all Coffman products *Today!*

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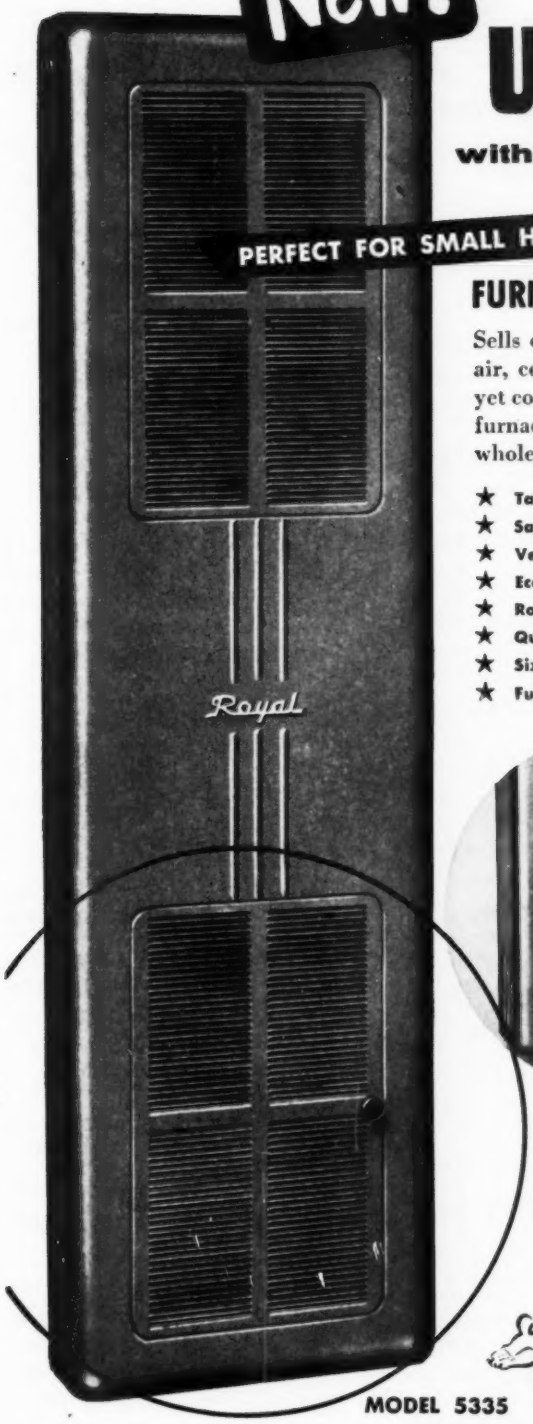
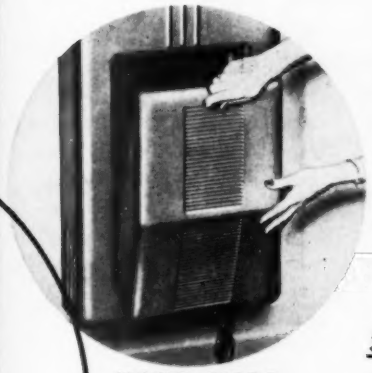


MODEL 5335



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Clyde Cutlery Co Clyde Ohio
Dreaten Mfg Co 2375 Walnut Av Long Beach 6 Cal
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Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 8 MO
Handy Things Mfg Co N Rowe Ludington Mich
Hyde Mfg Co Southbridge Mass
Lamson & Goodnow Mfg Co Shelburne Falls Mass
Lehon Co 4425 S Oakley Av Chicago 9 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Marathon Housewares Corp 33 W 42nd New York NY
Metal Trims Inc Box 1052 Youngstown 1 Ohio

Modern Specialties Co 4140 W Harrison Chicago Ill
Murray-Black Co Springfield Ohio
National Guard Prods 757 Madison Memphis 7 Tenn
Parker (Ira) & Sons Co Oshkosh Wis
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Ridgely Trimmer Co Springfield Ohio
Robeson Cutlery Co Inc Perry NY
Russell Harrington Cutlery Co 44 River Southbridge Mass
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Schrade (George) Knife Co Inc 46 Seymour Bridgeport Conn
Sélek (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Tuck Mfg Co 74 Ames Brockton 39 Mass
Warner Mfg Co 801 16th Av SE Minneapolis Minn
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

KNIVES, VENEER

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Disston (Henry) & Sons Inc Tacony Philadelphia 35 Pa
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS

LACQUER

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Berry Bros Inc 211 Leib Detroit 7 Mich
Breinig Bros Inc 1st & Harrison Hoboken NJ
Chicago Bronze & Color Wks 2673 W Grand Av Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Glidden Co Berea Rd & Madison Cleveland Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc Tenth & 44th Av Long Island City 2 NY
Lowe Bros Co 436 E Third Dayton 2 Ohio
Lucas (John) & Co 1639 Pennsylvania Blvd Philadelphia Pa
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Mobile Paint Mfg Co Box 1696 Mobile Ala
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson Sargent Co 1335 E 38th Cleveland 14 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Standard Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
United Lacquer Mfg Corp 1001 W Elizabeth Av Linden NJ
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Valentine & Co Inc 11 E 36th New York 16 NY
Woodfinishing Prods Co 34 Industrial New York 61 NY

LADDER ACCESSORIES

Aluminum Ladder Co Box 101 Worthington Pa
American Ladder Co 5509 NW 7th Av Miami 38 Fla
American Mason Safety Tread Co 125 Perry Lowell Mass
Breyer Bros Whiting & Co Waupun Wis
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Holland Ladder & Mfg Co 13053 W 17th Holland Mich
Holmes Mfg Co of Ohio 1340 Lake Shore Blvd Akron 3 Ohio
Lewis-Skinner Co New Boston NH
Michigan Ladder 12 E Forest Av Ypsilanti Mich
Patent Scaffolding Co 38-21 12th Long Island City 1 NY
STEEL SCAFFOLDING CO 856 HUMBOLDT BROOKLYN 22 NY
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
Weinstein Ladder Co Route 29 Union NJ
Woodenware Prods Corp 122 N 7th St Louis 1 Mo

LADDER STEPS, SAFETY

American Ladder Co 5509 NW 7th Av Miami 38 Fla
Babcock (W W) Co Inc Delaware Av Bath NY
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Campbell (A S) Co Inc 158 Prospect East Boston 28 Mass
Dayton Safety Ladder Co 2337 Gilbert Av Cincinnati 6 Ohio
Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Holland Ladder & Mfg Co 13053 W 17th Holland Mich
O'Neil (Carl W) Associates Inc 190 E Chestnut Chicago Ill

LADDERS, ALUMINUM

Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY
Acme Scaffold Co Inc 168 Nostrand Av Brooklyn 5 NY
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Ladder Co 5509 NW 7th Av Miami 38 Fla
Aluminum Ladder Co Box 101 Worthington Pa
Chesley Industries Inc 7731 Lyndon Detroit 12 Mich
Colloid Equipment Co Inc 19 Murray New York 7 NY
Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis
Harris Inc 200 E Long Columbus Ohio
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Weinstein Ladder Co Route 29 Union NJ
Werner (R D) Co 295 5th Av New York 16 NY

LADDERS, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Ballymore Co Wayne Pa
Chesley Industries Inc 7731 Lyndon Detroit 21 Mich
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
International Steel Co 1321 Edgar Evansville 7 Ind
Logan Co 201 Cabel Louisville 6 Ky
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
Precision Equipment Co 3712 N Milwaukee Av Chicago 41 Ill

LADDERS, WOOD, ALL TYPES

American Ladder Co 5509 NW 7th Av Miami 38 Fla
Babcock (W W) Co Inc Delaware Av Bath NY
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bauer Mfg Co Palmer St Wooster Ohio
Bch & Co Inc 1150 Broadway New York NY
Berg (John) Mfg Co 5319 S LaSalle Chicago 9 Ill
Breyer Bros Whiting Co Waupun Wis
Clark (J R) Co Spring Park Minn
Dayton Safety Ladder Co 2337 Gilbert Av Cincinnati 6 Ohio
Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis
Frizell Ladder Co 135 Granite Boston 24 Mass
Goshen Churn & Ladder Co 1930 Estes Blvd Goshen Ind
Goshen Mfg Co Goshen Ind
Goshen Sash & Door Co E Purl Goshen Ind
Green (Harry A) & Son 1620 S Canal Chicago Ill
Heider Mfg Co Carroll Iowa
Heller (W C) & Co Montpelier Ohio
Holland Ladder & Mfg Co Holland Mich
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
Howard Mfg Co Kent Wash
Howard Mfg Co of Cal 2428 E 58th Los Angeles 58 Cal
Los Angeles Ladder Co 6230 S Alameda Los Angeles 1 Cal
Michigan Ladder Co 12 E Forest Av Ypsilanti Mich
Moulton Ladder Mfg Co 2-40 Harding Somerville Mass
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
Patent Scaffolding Co 38-21 Twelfth Long Island City 1 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rich (Howard B) Inc Sixth St Carrollton Ky
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
ROWE MFG CO GALESBURG ILL
Tacoma Lumber Fabricating Co Tacoma 1 Wash
Tilley Ladders Co Inc (John S) 2365 McKinley Av Davenport Iowa
Tilley (John S) Ladders Co 112 Second Watervliet NY
Topping Ladder Co Marion NY
Warren (J D) Mfg Co Montpelier Ohio
Willamette Valley Lumber Co Dallas Ore
Woodenware Prods Corp 122 N 7th St Louis 1 Mo
Young (J O) Co Springfield Mass
Zoss Ladder & Mfg Co Portland 1 Mass

LAMPS, FLUORESCENT

GENERAL ELECTRIC CO LAMP DEPT NELA PARK CLEVELAND 12 OHIO
Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY
Westinghouse Electric Corp Lamp Div Bloomfield NJ

LAMPS, INCANDESCENT

GENERAL ELECTRIC CO LAMP DEPT NELA PARK CLEVELAND 12 OHIO
LaSalle Prods Inc 143 Seneca Buffalo 3 NY
Lightmore Appliance Corp 738 Broadway New York 3 NY
Penetray Corp 615 Front Toledo 5 Ohio
Pennsylvania Illuminating Corp Scranton Pa
Safety Electric Co 53 W Jackson Chicago Ill
Silvray Lighting Inc 1270 Sixth Av New York NY
Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY
Westinghouse Electric Corp Lamp Div Bloomfield NJ

LAMPS & LANTERNS, CAMP

COLEMAN CO INC SECOND & FRANCIS WICHITA 1 KAN
Cupples Co 401 57th St Louis 2 Mo
Dietz (R E) Co 225 Wilkinson Syracuse 1 NY
Justrite Mfg Co 2061 N Southport Av Chicago 14 Ill
Mantle Lamp Co of America 223 W Jackson Blvd Chicago Ill
Miller (Robert R) & Co Inc 33-36 Pearl New York NY
National Stamping & Electric Wks 2215 Clark Av St Louis 3 Mo
Overmyer-Perram Glass Co Box 2477 Tulsa Okla
Samcoe (Wm J) Iron Co 917 Military Rd Kenmore 17 NY
Stewart Iron Wks Co Inc 1851 Stewart Block Cincinnati 1 Ohio
Swain & Bridge New Britain Conn

LANTERNS, ORNAMENTAL IRON

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Braun (J G) Co 615 S Paulina Chicago 12 Ill
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Locke Mfg Co Ohio St Lodi Ohio
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

LATCHES

ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL
Champion Hdwe Co Geneva Ohio
Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY
Clinton Lock Co Clinton Iowa
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH

Duncan Shaw Corp 33 W 42nd New York 18 NY
Eagle Lock Co 20 S Main Terryville Conn
Griffin Mfg Co Cherry & Huron Erie 6 Pa
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn
INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
NATIONAL LOCK CO 1902 7TH ROCKFORD ILL
NATIONAL MFG CO STERLING ILL
Newel Mfg Co Lowell Mich
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Penn Hardware Co Spruce St Reading Pa
Safe Padlock & Hdwe Co Second & Crystal Lancaster Pa
Sager-Barrows Lock Div Yale & Towne Mfg Co Berrien Springs Mich
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Star Metal Prods Inc 370 Butler Brooklyn 17 NY
Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa
Technical Glass Co 2050 E 48th Los Angeles 11 Cal
WAGNER MFG CO 1ST & WASHINGTON CEDAR FALLS IOWA

LATCHES, GATE

Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal
Clinton Lock Co Clinton Iowa
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
FRANTZ MFG CO 301 W 3RD STERLING ILL
Hager (C) & Sons Hinge Mfg Co 139 Victor St Louis 4 Mo
Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
Johnson Industries Inc 2110 S 7th Blvd St Louis 4 Mo
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS
MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
Norwalk Lock Co 395 Broadway New York 13 NY
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER ST NEW HAVEN CONN
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Standard Bronze Co 179 W 5th Bayonne 20 NJ
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starline Inc 300 W Front Harvard Ill
Wrightsville Hdwe Co Wrightsvile Pa

LATCHES, MAGNET FOR CUPBOARD DOORS

LABORATORY EQUIPMENT CORP HILLTOP RD ST JOSEPH 6 MICH
National Plywoods Inc 2710 Throop Chicago 11
STANLEY WKS 111 ELM NEW BRITAIN CONN

LATH, COMPOSITION OR KEY

JOHNS MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Southern Pine Lumber Co Dibol Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

LATH, GYPSUM

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Grand Rapids Plaster Co Grand Rapids Mich
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Schumacher Wall Board Corp South Gate Cal
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

LATH, INSULATING

ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE, PA
DANT & RUSSELL, INC 711 EQUITABLE BLDG PORTLAND ORE
Fir-Tex Insulating Board Co US Natl Bank Bldg Portland Ore
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 30 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 3 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Simpson Logging Co White Bldg Seattle 1 Wash
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
WOOD CONVERSION CO FIRST NATL BANK BLDG ST PAUL 1 MINN

LATH, METAL

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-29 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa
Soule Steel Co 1750 Army San Francisco 24 CAl
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wheeling Corrugating Co Wheeling W Va
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON NEW YORK 19 NY

LATH, WOOD

Anaconda Copper Mining Co Bonner Mont
Brooks-Scanlon Inc Bend Ore
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
CROSSETT LUMBER CO CROSSETT ARK
Fleishel Lumber Co St Louis Mo
Fordyce Lumber Co Fordyce Ark
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hulbert (Wm) Mill Co 12th & Norton Everett Wash
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill
St Maries Lumber Co St Maries Idaho

LATHES

ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
DE WALT INC FOUNTAIN AV LANCASTER PA
Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Wallace (J D) & Co 136 S Carolina Av Chicago 12 Ill
Whitney (Baxter D) & Son Inc Winchendon Mass
Yates-American Machine Co 729 4th Beloit Wis

LATHING, SUSPENDED CEILING SYSTEMS

Alden Mfg Co 201 W Walnut Painesville Ohio
ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA
Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio
Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

LAVATORIES, CABINETS

James B Clow & Sons 201-299 N Talman Av Chicago 80 Ill
FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO
Ideal Cabinet Corp Div Des Lauriers Column Mould Co Inc 7722 Joy Rd Detroit 4 Mich
REGAL CABINET CORP 92 THIRD BROOKLYN 31 NY

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LEAD, RED

American Varnish Co 1140 N Branch Chicago 22 Ill
Berry Bros Inc 211 Leib Detroit 7 Mich
Breinig Bros Inc 1st & Harrison Hoboken NJ
Burdsal (A) Co 206 S Capitol Indianapolis 9 Ind
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
General Paint Corp 2627 Army San Francisco 19 Cal
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Hammond Lead Prods Inc Hammond Ind
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
National Lead Co 111 Broadway New York 6 NY
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky

Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
Vita-Var Corp 10 Commerce Newark NJ
Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

LEAD, WHITE

Acme White Lead & Color Wks 8250 St Aubin Detroit 11 Mich
American Varnish Co 1140 N Branch Chicago 22 Ill
Burdsal (A) Co 206 S Capital Av Indianapolis 9 Ind
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Fuller (W P) & Co Inc 301 Mission San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Jersey City 6 NJ
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Hoboken White Lead & Color Wks 15th & Adams Hoboken NJ
Inland White Lead Co Franklin Park Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Il
National Lead Co 111 Broadway New York 6 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sherwin-Wiliams Co 101 Prospect Av Cleveland 1 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

LEVELING, WALL, MATERIAL FOR

Reardon Co 7501 Page Av St Louis 14 Mo
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill

LEVELS, CARPENTER'S, MASON'S

BOSTROM BRADY MFG CO STONEWALL & BAILEY SW ATLANTA GA
Christensen & Kroll Box 284 McMinnville Ore
Columbian Vise & Mfg Co 9021 Bessemer Av Cleveland 4 Ohio
Empire Level Mfg Co Box 97 Milwaukee 13 Wis
General Hdwe Mfg Co Inc 80 White New York 13 NY
GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 8 MO
Graham (John H) & Co Inc 105 Duane New York 8 NY
Hall Level & Mfg Wks 1119 E Fourth Austin Tex
Harris Inc 200 E Long Columbus Ohio
HYDROLEVEL 53 DE SOTO AV OCEAN SPRINGS MISS
Keuffel & Esser Co 300 Adams Hoboken NJ
Mayes Bros Tool Mfg Co Port Austin Mich
Millers Falls Co Wells & Devon Greenfield Mass
Ox-Wall Tool Co 928 Broadway New York 10 NY
Peerless Level & Tool Co Sterling Ill
Sands Level & Tool Co 601 Clinton Clinton Ind
SCHARF (J H) MFG CO 6120 BINNEY OMAHA 4 NEBR
Schultes Level Inc 17403 Gable Av Detroit 12 Mich
SIMPLEX LEVEL CO 4921 CADILLAC BLVD DETROIT 14 MICH
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Stevens (E A) Level Co Newton Fals Ohio
THOM-WOOD CO 83 WEBSTER ROCKLAND MASS
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA
WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS

LIGHTING PLANTS

Buda Co Harvey Ill
Continental Motors Corp 205 Market Muskegon Mich
Eagle Electric Mfg Co Inc 23-10 Bridge Plaza So Long Island City 1 NY
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Il
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
Howard Industries Inc Cyclohm Motor Corp Div Racine Wis
Katolight Corp Box 491-95 Mankato Minn
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
KOHLER CO 44 HIGH KOHLER WIS
ONAN (D W) & SONS INC 2515 UNIVERSITY AV SE MINNEAPOLIS 14 MINN
Phelps Power & Light Co Rock Island Ill
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill
Ready-Power Co 3820 Grand River Av Detroit Mich
Universal Motor Co 517 Universal Dr Oshkosh Wis
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Wincharger Corp Commerce Bldg Sioux City Iowa
Wind (Jacob) Electric Co Inc Minneapolis Minn
Winpower Mfg Co Newton Iowa

LIGHTNING PROTECTION SYSTEMS

American Lightning Rod Co Inc 67 Batterymarch Boston 10 Mass
Boston Lightning Rod Co Dedham Mass
Brown Lightning Protection System Hartford Conn
Burkett Lightning Rod Co Park Av & Vine Fremont Ohio
Electra Protection Co Inc Home Savings Bank Bldg 11 N Pearl Albany 7 NY
Gichner Inc 1900 Kendall NE Washington 2 DC
INDEPENDENT PROTECTION CO INC 1603-09 S MAIN GOSHEN IND

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National Lightning Protection Co 2340 Eugenia St Louis 3 Mo
Ohio Lightning Rod Co West Milton Ohio
Robbins Lightning Protection Co 124 E Second Maryville Mo
Thompson (George E) Co 616 41st Av N Minneapolis 12 Minn
West Dodd Lightning Conductor Corp Goshen Ind

LIGHTS, FLUORESCENT

Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY
Benjamin Electric Co Des Plaines Ill
Cupples Co 401 S 7th St Louis 2 Mo
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo
Holophane Co Inc 342 Madison Av New York 17 NY
Long (W H) Co 425 N Clark Chicago Ill
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO
WESTINGHOUSE ELECTRIC CORP DEPT G10093 A BOX 868 PITTSBURGH 30 PA

LIGHTS, SPOT & FLOOD

Benjamin Electric Co Des Plaines Ill
Emarco Corp Box 515 Far Hills Sta Dayton 9 Ohio
General Electric Co Apparatus Div 1 River Rd Schenectady 5 NY
Haledy Electronics Co 57 William New York City 5 NY
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Lightolier Co 346 Claremont Av Jersey City 5 NJ
Pyle-National Co 1334 N Kostner Chicago 51 Ill
Steber Mfg Co 2700 Roosevelt Rd Broadview Ill
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

LIME, FINISHING

CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Fairmont Wall Plaster Co Fairmont W Va
Gibsonburg Lime Prods Co Gibsonburg Ohio
Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio
Keystone Lime Works Inc Keystone Ala
Marblehead Lime Co 300 W Washington Chicago 6 Ill
Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala
Standard Lime & Stone Co Baltimore 3 Md
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
Woodville Lime Co 2140 Jefferson Av Toledo 2 Ohio

LIME, HYDRATED

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Chicago Fire Brick Co 1461 N Elston Chicago 11 Ill
Corson (G & W H) Inc Plymouth Meeting Pa Ohio
Gibsonburg Lime Prod Co Gibsonburg Ohio
Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio
Keystone Lime Wks Inc Keystone Ala
Marblehead Lime Co 300 W Washington Chicago 6 Ill
Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal
National Lime & Stone Co First National Bank Bldg Findlay Ohio
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
Riverton Lime & Stone Co Inc Riverton Va
Smith Chemical & Color Co 55 John Brooklyn 1 NY
Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala
Standard Lime Stone Co Baltimore 3 Md
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Warner Co 219 N Broad Philadelphia 7 Pa
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
Western Lime & Cement Co 125 E Wells Milwaukee Wis
Woodville Lime Co 2140 Jefferson Av Toledo 2 Ohio

LIME, MASON'S

CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA
Gibsonburg Lime Prods Co Gibsonburg Ohio
Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio
Keystone Lime Wks Inc Keystone Ala
Marblehead Lime Co 300 W Washington Chicago 6 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
Riverton Lime & Stone Co Inc Riverton Va
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UNITED STATES GYPSUM CO 300 W ADAM CHICAGO 6 ILL
Warner Co 219 N Broad Philadelphia 7 Pa
Western Lime & Cement Co 125 E Wells Milwaukee Wis
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Gibsonburg Lime Prods Co Gibsonburg Ohio
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Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal
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Western Lime & Cement Co 125 E Wells Milwaukee Wis

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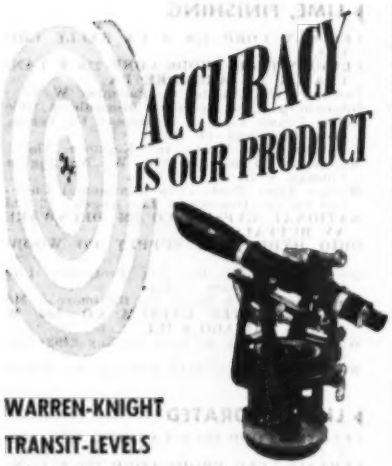
Corson (G & W H) Inc Plymouth Meeting Pa
Gibsonburg Lime Prods Co Gibsonburg Ohio
Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio
Marblehead Lime Co 300 W Washington Chicago 6 Ill
Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal
National Lime & Stone Co First National Bank Bldg Findlay Ohio



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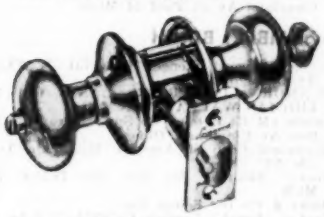

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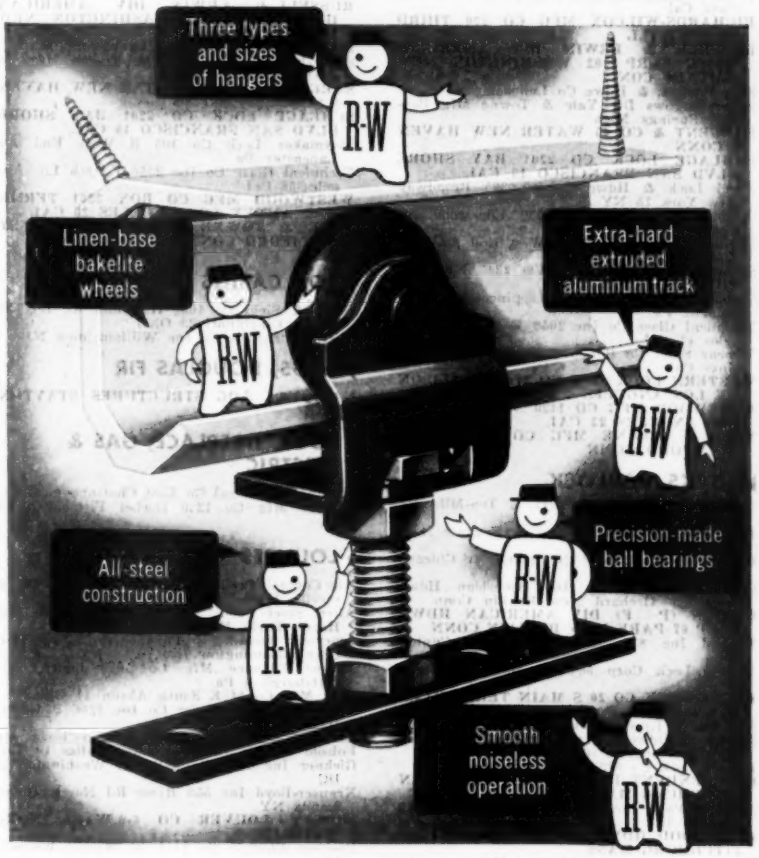

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HARLOCK PRODS CORP 25 FOX NEW HAVEN CONN
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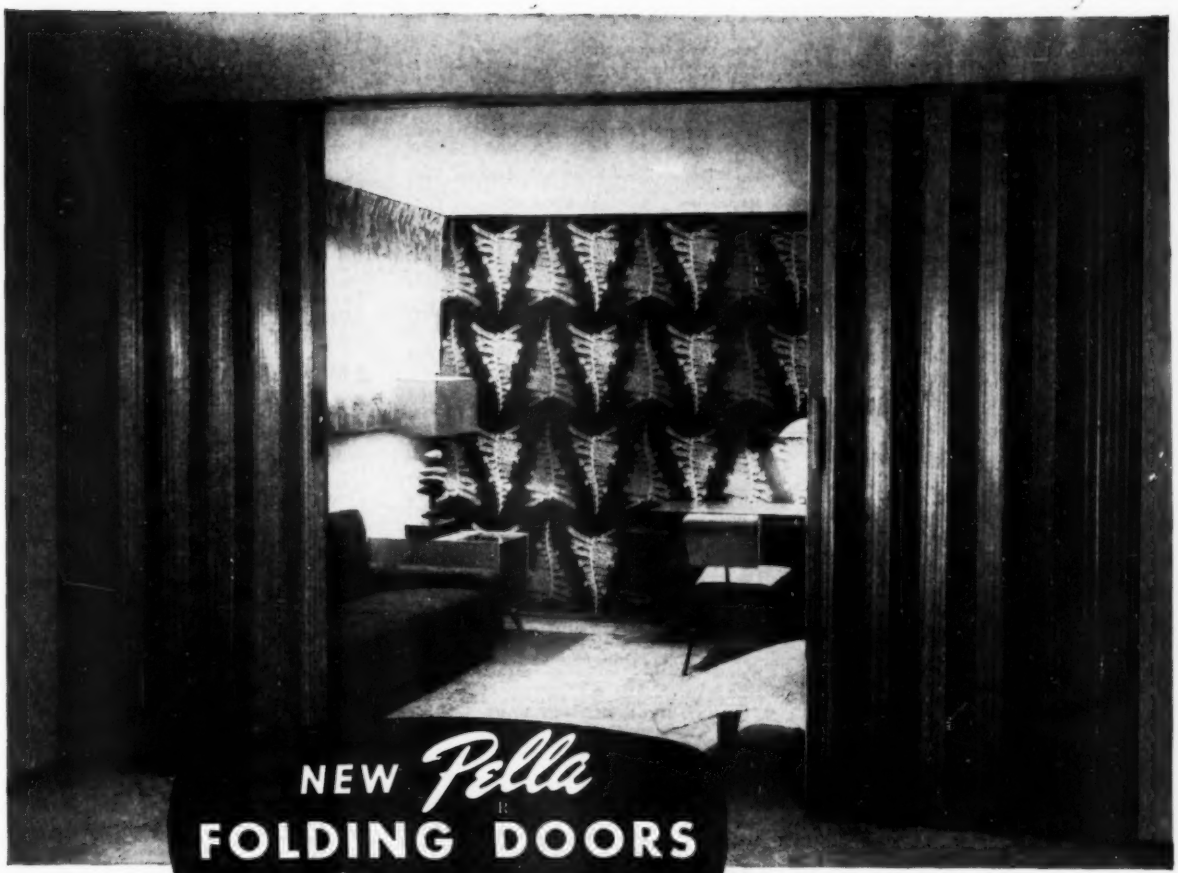

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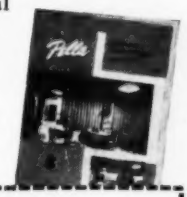

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Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Miller (Geo E) Lbr Co 617 Equitable Bldg Portland 4 Ore
Patrick Lumber Co Portland 5 Ore
Plytex Corp 1731 Elston Av Chicago 22 Ill
St Maries Lumber Co St Maries Idaho
Templeton (Herbert A) Lumber Co Portland 5 Ore
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

LUMBER, CREOSOTED & SALT TREATED

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Colfax Lumber & Creosoting Co Inc Box 231 Pineville La
CROSSETT LUMBER CO CROSSETT ARK
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Gaynor(E S) Lumber Co Sioux City 1 Iowa
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Protexol Corp 162 Market Kenilworth NJ
Southwestern Creosoting Co Box 935 Muskogee Okla
Taylor-Colquitt Co 217 E Main Spartanburg SC
Timber Structures Inc Box 3782 Portland 8 Ore
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLLG ST PAUL 1 MINN

LUMBER, CYPRESS

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
Atlantic Lumber Co 88 Broad Boston 4 Mass
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN
CROSSETT LUMBER CO CROSSETT ARK
Edens-Birch Lumber Co Corrigan Tex
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Lightsey Bros Miley SC
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Mansfield Hardwood Lbr Co 1166 Louisiana Av Shreveport La
Marshall Lumber Co Box 559 Marion NC
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Miller & Co Inc Selma Ala
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Southern Pine Lumber Co Texarkana Tex
Standard Mfg Co 220 E 4th Cedar Falls Iowa
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill

LUMBER, FIR, DOUGLAS

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Arrow Tank Co 16 Barnett Buffalo 15 NY
ASSOCIATED PLYWOOD MILLS EUGENE ORE
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
British Columbia Forest Prods Ltd 995 W 6th Av Vancouver 9 BC Canada
Canadian Western Lumber Co Ltd 15 King Edward Av New Westminster BC Canada
Cascade Lumber Co N 7th & "H" Yakima Wash
Clear Fir Sales Co Box 188 Springfield Ore
Collins Pondosa Lumber Co Pondosa Ore
Cook County Lbr Co 200 E 120th Chicago 28 Ill
Giustina Bros Lumber Co Box 989 Eugene Ore
Harbor Plywood Corp Hoquiam Wash
Harbor Plywood Corp Box 940 Aberdeen Wash
Howard Mfg Co of California 2428 E 56th Los Angeles 58 Cal
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Martin Bros Box Co Oakland Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Medford Corp Box 552 Medford Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Miller (Geo E) Lbr Co 617 Equitable Bldg Portland 4 Ore
Neils (J) Lumber Co Libby Mont New Mexico Timber Co Box 988 Albuquerque N Mex
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Patrick Lumber Co Portland 5 Ore
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Robinson Plywood & Timber Co Box 904 Everett Wash
St Maries Lumber Co St Maries Idaho
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA WASH
Simpson Logging Co White Bldg Seattle 1 Wash
Soderberg (Carl) Lumber Co Spokane 8 Wash
Templeton (Herbert A) Lumber Co Portland 5 Ore
Timber Prods Co Box 152 Medford Ore
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

LUMBER, FLAMEPROOF

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Protexol Corp 162 Market Kenilworth NJ

LUMBER, GUM

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
ATLAS PLYWOOD CORP STATLER BLDG BOSTON MASS
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN
CROSSETT LUMBER CO CROSSETT ARK
Edens-Birch Lumber Co Corrigan Tex
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Hardwood Corp of America Box 1091 Asheville NC
HIGGINS INC BOX 8001 NEW ORLEANS LA
Lightsey Bros Miley SC
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Mansfield Hardwood Lbr Co 1166 Louisiana Av Shreveport La
Marshall Lumber Co Box 559 Marion NC
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Miller & Co Inc Selma Ala
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Southern Pine Lumber Co Texarkana Tex
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

LUMBER, HEMLOCK, WESTERN

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Bradley Lumber Co Bradwood Ore
British Columbia Forest Prods Ltd 995 W 6th Av Vancouver 9 BC Canada
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Firpine Prods Co Box 546 Oswego Ore
Giustina Bros Lumber Co Box 989 Eugene Ore
Howard Mfg Co of California 2428 E 56th Los Angeles 58 Cal
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Martin Bros Box Co Oakland Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Miller (Geo E) Lumber Co 617 Equitable Bldg Portland 4 Ore
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Patrick Lumber Co Portland 5 Ore
Plytex Corp 1731 Elston Av Chicago 22 Ill
ST PAUL & TACOMA LUMBER CO 1200 ST PAUL AV TACOMA WASH
Simpson Logging Co White Bldg Seattle 1 Wash
Templeton (Herbert A) Lumber Co Portland 5 Ore
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Veach-May-Wilson Co Alcoa Tenn
WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN

LUMBER, LARCH, WESTERN

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Cascade Lumber Co N 7th & "H" Yakima Wash
Collins Pondosa Lumber Co Pondosa Ore
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Firpine Prods Co Box 546 Oswego Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Neils (J) Lumber Co Libby Mont
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
St Maries Lumber Co St Maries Idaho
Soderberg (Carl) Lumber Co Spokane 8 Wash
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
WEYERHAEUSER SALES CO 1ST NATL BANK BLDG ST PAUL 1 MINN

LUMBER, MAPLE

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio
Griffith Lumber Co 917 Guaranty Bank Bldg Huntington W Va
Hardwood Corp of America Box 1091 Asheville NC
Horner Flooring Co Box 104 Dollar Bay Mich
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Miller & Co Inc Selma Ala
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn

LUMBER, OAK, RED AND WHITE

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Anderson-Tully Co Box 28 Memphis Tenn
Arkansas Oak Flooring Co 2209 W Fifth Av Pine Bluff Ark
Atlantic Lumber Co 88 Broad Boston 4 Mass
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN
CROSSETT LUMBER CO CROSSETT ARK
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Edens-Birch Lumber Co Corrigan Tex
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Griffith Lumber Co 917 Guaranty Bank Bldg Huntington W Va
Hardwood Corp of America Box 1091 Asheville NC
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Mansfield Hardwood Lumber Co 1166 Louisiana Av Shreveport La
Marshal Lumber Co Box 559 Marion NC
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Miller Co Inc Selma Ala
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss

RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Southern Pine Lumber Co Diboll Tex
Stewart (E A) Lumber Co Inc Box 1797 Texarkana Tex
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach May Wilson Co Alcoa Tenn
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

LUMBER, PECAN

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Bradley Lumber Co of Ark Warren Ark
CROSSETT LUMBER CO CROSSETT ARK
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Southern Pine Lumber Co Texarkana Tex
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

LUMBER, PINE, PONDEROSA

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Brooks-Scanlon Inc Bend Ore
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Cascade Lumber Co N 7th & "H" Yakima Wash
Collins Pondosa Lumber Co Pondosa Ore
Cook County Lumber Co 200 E 130th Chicago 28 Ill
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Martin Bros Box Co Oakland Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Medford Corp Box 552 Medford Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Neils (J) Lumber Co Libby Mont
New Mexico Timber Co Box 988 Albuquerque NM
Oregon Lumber Co Baker Ore
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Patrick Lumber Co Portland 5 Ore
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Pickering Lumber Corp Standard Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
St Maries Lumber Co St Maries Idaho
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Soderberg (Carl) Lumber Co Spokane 8 Wash
Templeton (Herbert A) Lumber Co Portland 5 Ore
Timber Prods Co Box 152 Medford Ore
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

LUMBER, PINE, SUGAR

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Martin Bros Box Co Oakland Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Medford Corp Box 552 Medford Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Patrick Lumber Co Portland 5 Ore
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Pickering Lumber Corp Standard Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Soderberg (Carl) Lumber Co Spokane 8 Wash
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

LUMBER, PINE, WHITE, IDAHO

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Contact Lumber Co 719 Corbett Bldg Portland 4 Ore
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Marshall Lumber Co Box 559 Marion NC
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Neils (J) Lumber Co Libby Mont
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
St Maries Lumber Co St Maries Idaho
Soderberg (Carl) Lumber Co Spokane 8 Wash
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Veach-May-Wilson Co Alcoa Tenn
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

LUMBER, PINE, WHITE, NORTHERN

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Il
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

LUMBER, PINE, YELLOW, SOUTHERN

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Arrow Tank Co 16 Barnett Buffalo 15 NY
Atlantic Lumber Co 88 Broad Boston 4 Mass
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN
Crawford Corp 1901 N 3rd Baton Rouge La
CROSSETT LUMBER CO CROSSETT ARK
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Edens-Birch Lumber Co Corrigan Tex
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Kendal Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
Lightsey Bros Miley SC
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Mansfield Hardwood Lbr Co 1166 Louisiana Av Shreveport La
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Miller & Co Inc Selma Ala
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Phillips-Rhyne Lumber Co Inc Box 699 Brookhaven Miss
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss
Southern Pine Lumber Co Diboll Tex
Veach-May-Wilson Co Alcoa Tenn

LUMBER, POPLAR

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
BRUCE (E L) BOX 397 MEMPHIS 1 TENN
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio
Griffith Lumber Co 917 Guaranty Bank Bldg Huntington W Va
Hardwood Corp of America Box 1001 Asheville NC
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Miller & Co Inc Selma Ala
Parkay Inc Highland Park Louisvile Ky
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Veach-May-Wilson Co Alcoa Tenn

LUMBER, REDWOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Arrow Tank Co 16 Barnett Buffalo 15 NY
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
National Pacific Timber Prods Inc 7161 Telegraph Rd Los Angeles 22 Cal
PACIFIC LUMBER CO 100 BUSH SAN FRANCISCO CAL
Patrick Lumber Co Portland 5 Ore
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Simpson Logging Co White Bldg Seattle 1 Wash
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Union Lumber Co 620 Market Bldg San Francisco 4 Cal
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo

LUMBER, SPRUCE, SITKA

Aetna Plywood & Veneer 1731 N Elston Av Chicago 22 Ill
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Neils (J) Lumber Co Libby Mont
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Patrick Lumber Co Portland 5 Ore
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill
US Mengel Plywoods Inc Box 1612 Louisvile 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn

MAIL BOXES & DROPS

Adams Co Box 268 Dubuque Iowa
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Allen Steel Prods Inc 2041 E Ten-Mile Rd Hazel Park Mich
AMERICAN DEVICE MFG CO STEELVILLE ILL
AUTH ELECTRIC CO INC 34-20 45th LONG ISLAND CITY 1 NY
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
Baldwin Mfg Corp 1290 Central Av Hillside NJ
Bommer Spring Hinge Co Inc Landrum SC
Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati 2 Ohio
Champion Hdwe Co Geneva Ohio
Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Cipco Corp 22nd & Cole St Louis 6 Mo
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
COFFMAN (R G) CO INC 2800 N ORANGE AV ORLANDO FLA
Collins (George F) Co Sapulpa Okla
Columbus Plastic Prods Inc 1625 W Mound Columbus Ohio
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN

Couch (S H) Co Inc 1 Arlington North Quincy Mass
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Greco Mfg Co 2368 N Elston Av Chicago 14 Ill
Fawsco Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Falls Ohio
Fiwale Equipment Mfg Co 105 Reade New York 13 NY
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Judd (H L) Co 87 Chambers New York 7 NY
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH
McKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
Norwalk Lock Co Div Segal Lock & Hdwe Co 395 Broadway New York 13 NY
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Penn-Greg Mfg Co 562-7th Av N Minneapolis 11 Minn
Perfection Store Device Co 637 E 71st Chicago 19 Ill
Reflecto Letters 411 E 101st New York 29 NY
Safe Padlock & Hdwe Co 2nd & Crystal Lancaster Pa
Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER ST NEW HAVEN CONN
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Slaymaker Lock Co Lancaster Pa
Sperti Faraday Inc 1322 Church Adrian Mich
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Trego Industries Box 211 Red Oak Tex
Wiemann (Ernest) Iron Wks 2035 E 11th Tulsa 4 Okla
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

MANDRELS, SAW

Beach Mfg Co Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Chase Turbine Mfg Co Orange Mass
Clizbe Bros Mfg Co Plymouth Ind
Consolidated Machinery & Supply Co Ltd 2029 Santa Fe Av Los Angeles 21 Cal
Corinth Machinery Co Corinth Miss
Cunningham Machinery Corp 735 Ricon Shreveport La
Enterprise Co S Main St Columbiana Ohio
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Filer & Stowell Co 147 E Becher Milwaukee 7 Wis
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Lane Mfg Co Montpelier Vt
Milwaukee Hay Tool Co 2773 S 29th Milwaukee 46 Wis
Prescott Co Menominee Mich
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Yates-American Machine Co Beloit Wis

MANTELS, FIREPLACE

Burke Millwork Co Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Memphis 2 Tenn
Columbia Mfg Co 845 S 9th Louisville 3 Ky
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl St Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Huttig Mfg Co Muscatine Iowa
Ideal Co 24th & Mary Sts Waco Tex
Marquart Millwork Co Oshkosh Wis
Morgan Co 520 Oregon Oshkosh Wis
READYBUILT PRODS CO 1705-23 MCHENRY BALTIMORE 23 MD
Roach & Musser Co Muscatine Iowa
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Semling-Menke Co S Nast St Merrill Wis
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa

MESH, WIRE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Cyclone Fence Dept American Steel & Wire Div US Steel Corp Box 260 Waukegan 1 Ill
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Myers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Northwestern Steel & Wire Co Sterling Ill
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Smith (F P) Wire & Iron Wks Inc 2340 N Clybourn Av Chicago 14 Ill
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Wheeling Corrugating Co Wheeling W Va
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

METAL LATH MACHINES, CUTTER

Harvey Mfg Co La Mesa Cal
Scritchfield Mfg Co 1783 Logan Av San Diego 13 Cal

METAL SINK BOWLS

Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Jamestown Metal Prods Co 178 Blackstone Av Jamestown NY
LEGION STAINLESS SINK CORP 21-07 40TH AV LONG ISLAND CITY 1 NY
TRACY KITCHENS EDGEWATER STEEL CO 3125 PREBLE AV BOX 1137 PITTSBURGH 30 PA

MICROMETERS

Brown & Sharpe Mfg Co 235 Promenade Providence 1 RI
LUFKIN RULE CO SAGINAW MICH
Miller Falls Co Wells & Devon Greenfield Mass
Starrett (L S) Co 101 Crescent Athol Mass

MIRRORS, BATHROOM

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Bache (Semon) & Co 636 Greenwich New York 14 NY
Belknap Glass Co 1000 Valley Seattle 1 Wash
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
CAREY (PHILIP) MFG CO 516 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Dearborn Glass Co 2402 W 21st Chicago 8 Ill
Faries Mfg Co 1060 E Grand Av Decatur Ill
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
HALL-MACK CO 1344 W WASHINGTON BLVD LOS ANGELES 7 CAL
Hess Co 1855 S 54th Av Chicago 50 Ill
MECHANICAL MIRROR WKS INC 661-663 EDGECOMBE AV NEW YORK 32 NY
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY
National Mirror Wks 1925 Kishwaukee Rockford Ill
Nurre Cos Inc Bloomington Ind
Parker (Charles) Co 50 Hanover Meriden Conn
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Standard Mirror Co 141 Milton & PRR Buffalo NY
Standard Steel Cabinet Co 3711 N Milwaukee Chicago Ill
Toledo Plate & Window Glass Co 1041 Utica Toledo 2 Ohio

MIRRORS, DECORATIVE & HOUSEHOLD

Acme Specialty Mfg Co Thomas & Smead Av Toledo 6 Ohio
Art Mirror & Glass Specialty Co 4401 W Carroll Chicago Ill
Bache (Semon) & Co 636 Greenwich New York 14 NY
Belknap Glass Co 1000 Valley Seattle 1 Wash
BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Century Industries Inc 1521 W 35th Chicago Ill
Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa
Dearborn Glass Co 2402 W 21st Chicago 8 Ill
Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago Ill
Lawson (F H) Co 803 Evans Cincinnati 4 Ohio
MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO
Miroflex Prods Co Inc 878 Broadway New York 3 NY
National Metal Prods Co Waterloo Iowa
National Mirror Wks 1925 Kishwaukee Rockford Ill
Nurre Cos Inc Bloomington Ind
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY
Standard Mirror Co 141 Milton & PRR Buffalo NY
Toledo Plate & Window Glass Co 1041 Utica Toledo Ohio
Tyler & Hippach Glass Co 2949 N Paulina Chicago 13 Ill
Warren Co Atlanta Ga

MIRRORS, TRANSPARENT

Bache (Semon) & Co 636 Greenwich New York 14 NY
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

MITER BOXES

American Crayon Co Sandusky Ohio
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
Empire Level Mfg Co Box 97 Milwaukee 13 Wis
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
McGrath-St Paul Co 242 E Fifth St Paul 1 Minn
Millers Falls Co Greenfield Mass
National Guard Prods 757 Madison Memphis 7 Tenn
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN

MODEL HOUSES, SCALE

Architectural Model Materials Inc 4208 W Armitage Av Chicago 39 Ill
Homes Center 720 Washington Av SE Minneapolis Minn
Jayline Mfg Co Inc Egg Harbor NJ
Mitchell Models 536 Chimers St Joseph Mich
National Plan Service Inc 1315 W Congress Chicago 7 Ill

MOPS, ROOFING APPLICATOR

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American Textile Prods Co 5606 Euclid Cleveland 3 Ohio
Cupples Co 401 S 7th St Louis 2 Mo
Graham (John H) Co Inc 105 Duane New York 8 NY
Lehon Co 4425 S Oakley Chicago 9 Ill
Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio

MORTAR

Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich
MEDUSA PORTLAND CEMENT CO 1000 MIDLAND BLDG CLEVELAND 15 OHIO
Mexico Refractories Co Love & Cole Sts Mexico Mo
National Lime & Stone Co First National Bank Bldg Findlay Ohio
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Washington Brick & Lime Co Spokane 8 Wash
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Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Ladder Co 5509 NW 7th Av Miami 38 Fla
American Sheet Metal Wks New Orleans La
American Steel Wks 1211 W 27th Kansas City 8 Kan
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Essick Mfg Co 1950 S Santa Fe Av Los Angeles 21 Cal
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Harris Inc 200 E Long Columbus Ohio
Jackson Mfg Co Cameron & Lochiel Rd Harrisburg Pa
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Kewanee Mfg Co 150 Burlington Av Kewanee Ill
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Forest City Bin & Tool Co 1206 Kishwaukee Rockford Ill
KNIGHT MFG CO 2930 S WASHINGTON SAGINAW MICH
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
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ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
ATLAS PRESS CO KALAMAZOO MICH
Beach Mfg Co Montrose Pa
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Century Electric Co 1806 Pine St Louis 3 Mo
DELCO APPLIANCE DIV GENERAL MOTORS CORP ROCHESTER NY
Diehl Mfg Co 1185 Finderne Av Somerville NJ
EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO
Fairbanks-Morse & Co 600 S Michigan Av Chicago Ill
FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL
Hamilton Beach Co Div Scovill Mfg Co Racine Wis
Hoover Co Electric Motor Div 700 Brook Av North Plainfield NJ
Leland Electric Co 1501 Webster Dayton 1 Ohio
Master Electric Co 126 Davis Av Dayton 1 Ohio
MASTER WOODWORKER MFG CO 409 E FORT DETROIT 26 MICH
Peerless Electric Co 1401 W Market Warren Ohio
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Robbins & Myers Co 1345 Lagonda Av Springfield Ohio
Russell Electric Co 4501 S Western Chicago 9 Ill
STANLEY WKS 111 ELM NEW BRITAIN CONN
Sutton (O A) Corp 1812 W 2nd Wichita Kan
Wagner Electric Corp 6400 Plymouth Av St Louis 14 Mo
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

MOULDINGS, CONDUIT BASE

NATIONAL ELECTRIC PRODS CORP 2 GATEWAY CENTER PITTSBURGH 22 PA
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal

MOULDINGS, HARDBOARD

A & F TILEBOARD CO LEE & ROY STS BOX 4085 ALEXANDRIA LA
Ames Metal Moulding Co 225 E 144th New York 51 NY
Barclay Mfg Co Inc 385 Gerard Av Bronx N Y
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
DeSoto Hardwood Flooring Co Dudley & Sledge Memphis Tenn
Forest Fiber Prods Corp Box 68 AB Forest Grove Ore
Gibbs Boardtile Corp 638 N Aberdeen Chicago 22 Ill
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
Miratile Mfg Co Dept F 600 W 81st Chicago 20 Ill
National Tileboard Corp 1314 Blondell Av New York 61 NY
Prestile Mfg Co 5850 Ogden Av Chicago 50 Ill
Tex-A-Panel Mfg Co 10848 Harry Hines Blvd Dallas Tex
Tylac Co Monticello Ill
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo

MOULDINGS, METAL

A & F TILEBOARD CO LEE & ROY STS BOX 4085 ALEXANDRIA LA
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
Alden Mfg Co 201 W Walnut Painesville Ohio
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
ALLMETAL WEATHERSTRIP CO 229 W OHIO CHICAGO ILL
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
Ames Metal Moulding Co 227 E 144th New York 51 NY
ARMSTRONG CORK CO BUILDING MATERIAL DIV 1010 CONCORD LANCASTER PA
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
Barclay Mfg Co Inc 385 Gerard Av Bronx NY
BENDIX MFG CO 192 LEXINGTON AV NEW YORK 16 N
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
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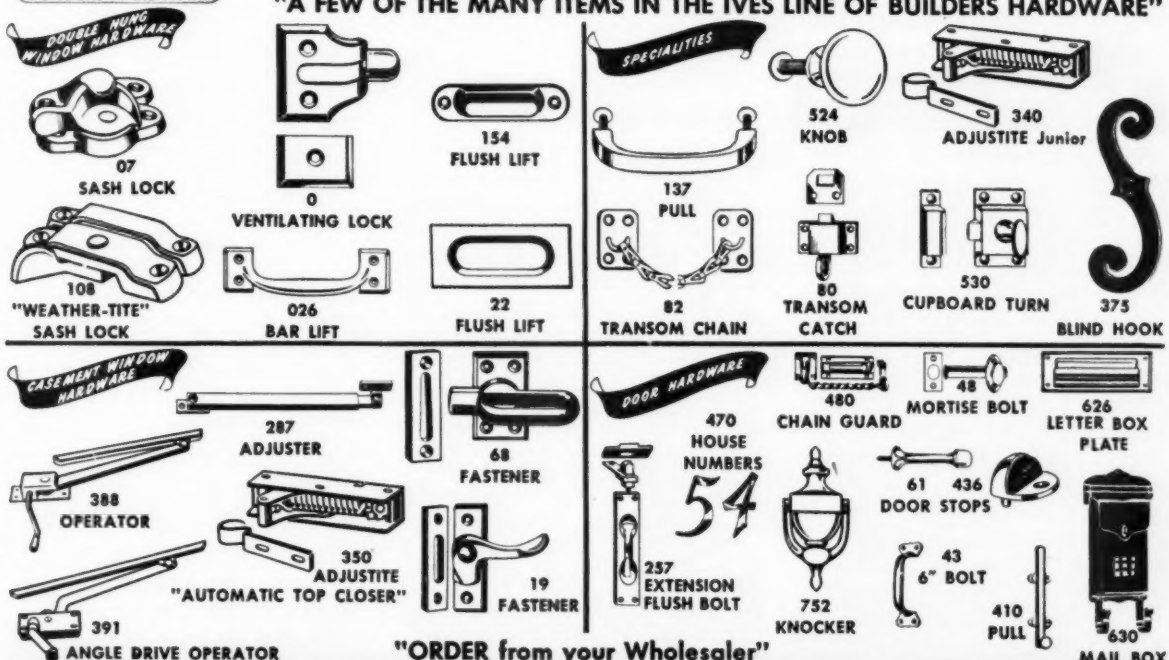

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CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Chicago Metallic Sash Co 2112 Ogden Av Chicago 12 Ill
Colonial Sales Corp 928 Broadway New York 10 NY
Color Craft Prods Inc 5035 Belleville Detroit 11 Mich
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
Decorite Inc 2116 Peachtree Rd NW Atlanta Ga
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY
Ford Metal Moulding Corp 27-01 Bridge Plaza N Long Island City 1 NY
Formetal Inc 109 W Water Oak Harbor Ohio
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill
Goldsmith Metal Lath Co Cincinnati Ohio
Greene Mfg Co 1028 Douglas Racine Wis
Harvey Machine Co Inc 190th St at Western Av Torrance Cal
Herron-Zimmers Moulding Co 3920 E Outer Dr Detroit Mich
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY
KAWNEER CO 1105 N FRONT NILES MICH
Kinkead Industries Inc 5860 N Pulaski Chicago 30 Ill
Knapp Bros Mfg Co 16 E 72nd Cincinnati 16 Ohio
Lees (John) Div Serrick Corp Muncie Ind
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

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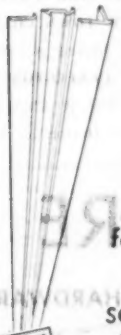

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Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
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Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill
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Pyramid Prods Co 2224 S State Chicago Ill
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Superior Wall Prods Co 4401 N American Philadelphia 40 Pa
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Tileboard Corp 2550 Atlantic Av Brooklyn NY
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Trimedge Inc 4021 Mahoning Youngstown Ohio
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Tylac Co Monticello Ill
United Industries Inc 231 S LaSalle Chicago 4 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
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Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Wooster Prods Inc Wooster Ohio
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Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
Chicago Wood & Plastic Prods 4444 Irving Park Chicago Ill
Commonwealth Plastic Inc Superior Plastics Div 426 N Oakley Blvd Chicago 12 Ill
Extruded Plastics Inc Norwalk Conn
Gits Molding Corp 4600 W Huron Chicago 44 Ill
Herron-Zimmers Moulding Co Detroit Mich
Imperial Molded Prods Corp 2925 Harrison Chicago 12 Ill
Johnson Plastics Corp Box 212 Chagrin Falls Ohio
Keller Prods Inc 41 Union Manchester NH
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
Prestile Mfg Co 5850 W Ogden Av Chicago 50 Ill
S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal
Superior Plastics Inc 410-430 N Oakley Blvd Chicago 12 Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

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Aetna Plywood & Veneer Co 1752 N Elston Chicago 22 Ill
American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
Angelina County Lumber Co Keltys Tex
Angelina Hardwood Sales Co Box 1020 Wilson St Lufkin Tex
Argent Lumber Co Hardeeville SC
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Babcock Lumber Co Prick Bldg Pittsburgh 19 Pa
BENDIX MFG CO 192 LEXINGTON AV NEW YORK 16 NY
Biles-Coleman Lumber Co Inc Omak Wash
Blum (Julius) Co Inc 532 W 22nd New York 11 NY
Bradley Lumber Co of Warren Ark
Bradley Miller & Co Bay City Mich
Brooks-Scanlon Inc Bend Ore
BRUCE (E L) CO BOX 387 MEMPHIS 1 TENN
Burke Millwork Co Seattle 3 Wash
CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE 10 IOWA
Cascade Lumber Co N 7th & "H" Sts Yakima Wash
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Cole Mfg Co Box 2657 Memphis 2 Tenn
Collins Pondosa Lumber Co Pondosa Ore
Contact Lumber Co 719 Corbett Bldg Portland 4 Ore
Cromar Co Susquehanna St Williamsport Pa
CROSSETT LUMBER CO CROSSETT ARK
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Dargan Lumber Mfg Co Conway SC
Diamond Match Co Chico Cal
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Edens-Birch Lumber Co Corrigan Tex
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Farley & Loetscher Mfg Co Dubuque Iowa
Firpine Prods Co Box 546 Oswego Ore
Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Inc Drawer 1125 Shreveport La
General Panel Corp 1101 W Victory Blvd Burbank Cal
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Goshen Sash & Door Co E Purl St Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Harris Mfg Co Grover at Walnut St Johnson City Tenn
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
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Keystone Frame & Mfg Co Box 873 Spokane 3 Wash
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 836 Hastings Vancouver BC Canada
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Marquart Millwork Co 50 Cenpe Oshkosh Wis
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
McMinnville Mfg Co Box 151 McMinnville Tenn
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Metropolitan Lumber Co 7534 W State Milwaukee Wis
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Miller & Co Inc Selma Ala
Miller Bros Co Box 540 Johnson City Tenn
Mitchell Moulding Co 1501 Circle Av Forest Park Ill
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
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New Mexico Timber Co Box 998 Albuquerque NM
Nickey Bros Inc 2700 Summer Av Memphis Tenn
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North-Robbins Plywood Inc 400 Boren Av N Seattle 9 Wash
Northwest Door Plywood Co Tacoma 1 Wash
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Ostin (David) Moulding Corp 10th & Bassettlaw North Sacramento Cal
Owen (R C) Co Hopkinsville Ky
PACIFIC LUMBER CO 100 BUSH SAN FRANCISCO CAL
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss
Pickering Lumber Corp Standard Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Quigley (J R) Co Gloucester City NJ
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Shadowood 15058 Delano Van Nuys Cal
Silcrest Co 100 Thomas Wausau Wis
Smith (Ralph L) Lumber Co Kansas City Mo
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Union Lumber Co 620 Market Bldg San Francisco 4 Cal
UPSON CO 43 UPSON PT LOCKPORT NY
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Keller Prods Inc 41 Union Manchester NH
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
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Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
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K-D Mfg Co 526 N Plum Lancaster Pa
Markwell Mfg Co 200 Hudson New York 13 NY
Union Hdwe Co Sealand Inc Torrington Conn
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Woodings-Verona Tool Wks 1947 Thomas Verona Pa

NAIL SETS

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Damascus Steel Prods Corp 2199 W Kishwaukee Rockford Ill
Drew (C) & Co Inc Maple St Kingston 7 Mass
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Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass
McPherson-Huff Tool Co Sabina Ohio
Millers Falls Co Wells & Devon Greenfield Mass
Polis (J D) Mfg Co 2904 W 26th Chicago 23 Ill
Rainey-Tools Grove City Pa
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Syracuse Twist & Drill Co Inc 1046 S Townsend Syracuse 3 NY
Tuck Mfg Co 74 Ames Brockton 39 Mass
Union Tool Co 48 E River Orange Mass

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Polis (J D) Mfg Co 2904 W 26th Chicago 23 Ill
US Expansion Bolt Co State St & PRR York Pa

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Heller Co 2135 Superior Av Cleveland 14 Ohio
SPOTNAILS INC 1527 LYONS EVANSTON ILL

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INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
POWERNAIL CO 961 MONTANA CHICAGO 14 ILL

NAILS, ALUMINUM

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Atlas Tack Corp S Pleasant St Fairhaven Mass
Braun (J G) Co 615 S Paulina Chicago 12 Ill
Eastern Nail Co 50 Aleppo Providence 9 RI
HASSALL (JOHN) INC WESTBURY LI NY
Maze (W H) Co Church & the River Peru Ill
National Plywoods Inc 2710 Throop Chicago Ill
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Wells Specialty Co North Liberty Ind

NAILS, COMMON

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bambrick (Richard J) 125 Broad New York 4 NY
Berger Mfg Div Republic Steel Corp 1038 Belden Av Canton 5 Ohio
Bethlehem Steel Co 701 E Third Bethlehem Pa
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
HASSALL (JOHN) INC WESTBURY LI NY
Illinois Nail Co 826 Peoria Chicago Ill
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsvile Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
REYNOLDS METALS CO BUILDING PRODS DIV 2000 S 9TH LOUISVILLE 1 KY
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Valentine Equipment Co 561 W Washington Chicago Ill
Wash Co Inc 720 N Bowman Av Danvile Ill
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson Steel & Wire Co W 49th & S Western Av Chicago Ill
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

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Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
HASSALL (JOHN) INC WESTBURY LONG ISLAND NY
Hussey Co 2860 Second Pittsburgh 19 Pa
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN

NAILS, CUT

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Wire Corp Continental Oil Bldg Denver 2 Colo
Continental Steel Corp 1109 S Main Kokomo Ind
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
Shelton Tack Co 103 Canal Shelton Conn
Tremont Nail Co 21 Elm Wareham Mass
Wheeling Corrugating Co Wheeling W Va
Wheeling Steel Corp Wheeling W Va
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

NAILS, FLOORING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
Camp Co Inc 6958 S State Chicago 21 Ill
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Cromar Co Susquehanna St Williamsport Pa
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
KEYSTONE STEEL & WIRE CO 7000 S ADAM PEORIA 7 ILL
Maze (W H) Co Church & the River Peru Ill
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
SPOTNAILS INC 1527 LYONS EVANSTON ILL
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Tremont Nail Co 21 Elm Wareham Mass
Valentine Equipment Co 561 W Washington Chicago Ill
Wheeling Corrugating Co Wheeling W Va
Wickwire Bros Inc 189 Main Cortland NY
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

NAILS, LATH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
KEYSTONE STEEL & WIRE CO 7000 S ADAM PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Valentine Equipment Co 561 W Washington Chicago Ill
Wickwire Bros Inc 189 Main Cortland NY

NAILS, LEAD HEAD

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal

Continental Steel Corp 1109 S Main Kokomo Ind
Deniston Co 4856 S Western Av Chicago 9 Ill
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Maze (W H) Co Church & the River Peru Ill
Mid States Steel & Wire Co Crawfordsville Ind
National Lead Co 111 Broadway New York 6 NY
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Wheeling Corrugating Co Wheeling W Va

NAILS, MASONRY

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
Heckmann Building Prods Co 4018 W Lake Chicago 24 Ill
Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
Parker-Kalon Corp 200 Varick New York 14 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Star Expansion Bolt Co 147-149 Cedar New York 6 NY
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Tremont Nail Co 21 Elm Wareham Mass
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

NAILS, ROOFING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bambrick (Richard J) 125 Broad New York 4 NY
Bethlehem Steel Co 701 E Third Bethlehem Pa
Camp Co Inc 6958 S State Chicago 21 Ill
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Crescent Brass & Pin Co 5760-5800 Trumbull Av Detroit 8 Mich
Cupples Co 401 S 7th St Louis 2 Mo
Deniston Co 4856 S Western Av Chicago 9 Ill
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
E G Building Fasteners Corp 101 Park Av New York 17 NY
Fanner Mfg Co Brookside Park Cleveland 9 Ohio
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Maze (W H) Co Church & the River Peru Ill
Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Valentine Equipment Co 561 W Washington Chicago Ill
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson Steel & Wire Co 4840 S Western Av Chicago Ill
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

NAILS, SCREW-TYPE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Camp Co Inc 6958 S State Chicago 21 Ill
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Cupples Co 401 S 7th St Louis 2 Mo
Deniston 4856 S Western Av Chicago 9 Ill
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
E G Building Fasteners Corp 101 Park Av New York 17 NY
HASSALL (JOHN) INC WESTBURY LI NY
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Parker-Kalon Corp 200 Varick New York 14 NY
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 NINTH LOUISVILLE 1 KY
Stronghold Screw Prods 1883 W Winnemac Av Chicago 40 Ill

NAILS, SELFLOCKING

E G Building Fasteners Corp 101 Park Av New York 17 NY
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ

NAILS, SHINGLE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CHASE BRASS & COPPER CO INC 236 GRAND AV WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill
E G Building Fasteners Corp 101 Park Av New York 17 NY
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Maze (W H) Co Church & the River Peru Ill
Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson Steel & Wire Co 4840 S Western Av Chicago Ill
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

NAILS, WALLBOARD

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio
Atlas Tack Corp S Pleasant Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
HASSALL (JOHN) INC WESTBURY LI NY
Maze (W H) Co Church & the River Peru Ill
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Republic Steel Corp Republic Bldg Cleveland Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Valentine Equipment Co 561 W Washington Chicago Ill
Wickwire Bros Inc 189 Main Cortland NY

NAME PLATES

Colonial Brass Co Davis St Middleboro Mass
CORBIN (P F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
Erco Mfg Co 2368 Elston Av Chicago 14 Ill
LOCKWOOD HDWE MFG CO 1950 CLEGHORN FITCHBURG MASS
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Turner Brass Wks 821 Park Av Sycamore Ill

NETTING, WIRE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Continental Steel Corp 1109 S Main Kokomo Ind
Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
Indiana Steel & Wire Co Muncie Ind
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

calder Wedge Tight

OVERHEAD SECTIONAL GARAGE DOORS

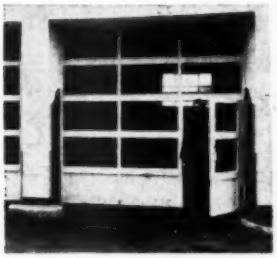
STOCK SIZES

	Sturdy	Leveline	Paraline	Triline	Keystone
8′ x 6′6″ x 1⅜″	•		•	•	•
8′ x 7′	•	•	•	•	•
8′ x 7′6″	•				
8′ x 8′	•				
9′ x 6′6″	•		•	•	•
9′ x 7′	•	•	•	•	•
10′ x 7′	•	0	0	0	0
14′ x 7′ x 1⅜″	•				
15′ x 7′	•	•	0	0	
16′ x 6′6″	•				
16′ x 7′	•	•	0	0	
15′ x 7′ x 1¾″	•				
16′ x 7′ x 1¾″	•				
8′ x 8′ x 1¾″	•				
10′ x 8′	•				
10′ x 10′	•				
10′ x 12′	•				
10′ x 14′	•				
12′ x 8′	•				
12′ x 10′	•				
12′ x 12′	•				
12′ x 14′	•				

0 These items available in quantities of 25 or more. Flush doors-solid panel or glazed at factory. Available any size, any quantity.

In addition to Sturdy door stock sizes shown, doors are made in any size, shape or design for any purpose. Doors larger than 12 x 12 should be equipped with chain lift or Electric Operator. Center Track for Wide Doors.

Complete line of Radio Controlled Electric Operators plus Heavy Duty Electric Operators for Heavy Doors



SERVICE STATION DOORS

(With or Without pass door as shown)

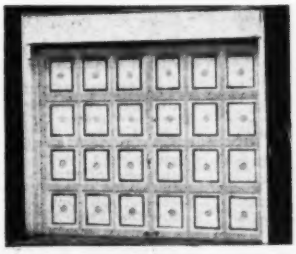
and

HIGH LIFT TORSION SPRINGS

made to any specification

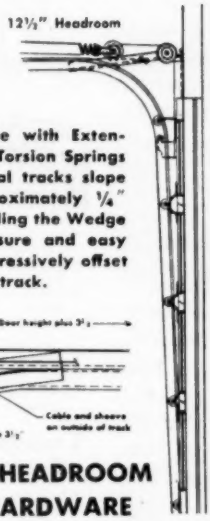
Beautiful Custom Door Effects Every Door Different

Various Rosettes and Half Round Strips Stocked by Dealers make possible a different design for every door of any style shown. By using color contrasts an endless variety of stylized doors are possible.

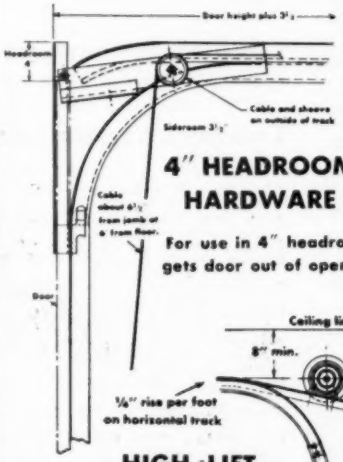


for RESIDENTIAL and COMMERCIAL use

THE *WedgeTight* TRACK



Wedge Tight Hardware with Extension Springs SHOWN (Torsion Springs also available). Vertical tracks slope away from jamb approximately ¼" per door section, providing the Wedge Tight action, tight closure and easy operation. Hinges progressively offset to conform to slope of track.

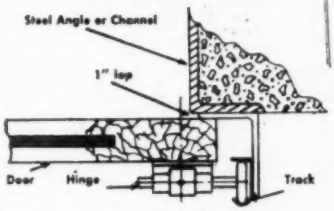


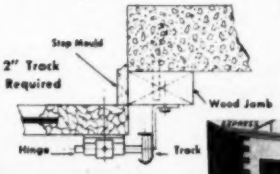
4″ HEADROOM HARDWARE

For use in 4″ headroom, gets door out of opening.

HIGH LIFT TORSION SPRING HARDWARE

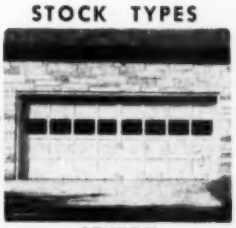
STEEL JAMB MOUNTING



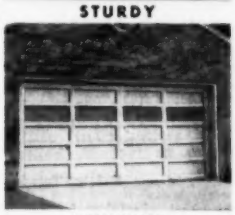


RUBBER ASTRAGAL AVAILABLE

STOCK TYPES



STURDY



LEVELINE

PARALINE

TRILINE

FLUSH

KEYSTONE

COMMERCIAL

calder MANUFACTURING CO. LANCASTER 12, PENNA.

NIPPERS

Champion-De-Arment Tool Co 1306-16 Main Meadville 1 Pa
Damascus Steel Prods Corp 2199 W Kishwaukee Rockford Ill
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill
Kraeuter & Co Inc 581 18th Av Newark NJ
Lowe Mfg Co Enderlin ND
M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn
Peck Stow & Wilcox Co Mill St Southington Conn
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Starr Bros Bell Co East Hampton Conn

NOSINGS, METAL

AETNA STEEL PRODS CORP 730 5TH AV NEW YORK 19 NY
Alden Mfg Co 201 W Walnut Painsville Ohio
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
American Mason Safety Tread Co 125 Perry Lowell Mass
Ames Metal Moulding Co 227 E 144th New York 51 NY
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
Camp Co Inc 6958 S State Chicago 21 Ill
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Decorite Inc 2116 Peachtree Atlanta Ga
Ford Metal Moulding Corp 27-01 Bridge Plaza N Long Island City 1 NY
Kinkead Industries Inc 5860 N Pulaski Rd Chicago 30 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
Metal Trims Inc Box 1072 Youngstown 1 Ohio
National Guard Prods 757 Madison Memphis 7 Tenn
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill
Pyramid Mouldings Inc 5353 W Armstrong Chicago 30 Ill
S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
Safe Tread Co Inc 30 Vesey New York 7 NY
Trimedge Inc 4021 Mahoning Youngstown 1 Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Werner (R D) Co Inc 295 Fifth Av New York 16 NY
Wheeling Corrugating Co Wheeling W Va
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Wooster Prods Inc Loehr & Wyant Wooster Ohio
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

NUMBERS & LETTERS, LUMINOUS

Auto Sign Display Co 1911 Pine St Louis Mo
Gits Molding Corp 4600 W Huron Chicago 44 Ill
Greider (K H) Mfg Co 830 Mason Springfield Ohio
Lumelite Corp Pawling NY
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
NU TONE INC MADISON & RED BANK CINCINNATI 27 OHIO
Nu View House Number 3910 Carnegie Cleveland 15 Ohio

NUMBERS & LETTERS, REFLECTING

MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

NU-ART NUMBERS & LETTERS

B CHOOSE FROM 4
3 SIZES
3 METALS
See Pgs. 14-17
SOLD BY HARDWARE & LUMBER DEALERS
MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

Reflecto Letters Co 411 E 101st New York 29 NY
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Thomas & Associates Inc Minneapolis 11 Minn
US Lite-Ray Co Dayton Ohio

NUMBERS & LETTERS, TILE

Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio

NUMBERS & LETTERS, WOOD & METAL

Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Champion Hdwe Co 3300 Miller Geneva Ohio
Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY
Cipco Corp 22nd & Cole St Louis 6 Mo
Clinton Lock Co 78 31st Av N Clinton Iowa
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Fiwale Equipment Co 105 Reade New York 13 NY
Gits Molding Corp 4600 W Huron Chicago 44 Ill
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Lakeside Metalcraft Co 339 W Hovey Av Muskegon Heights Mich
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Matthews (James H) & Co 1315 W Liberty Av Pittsburgh Pa
McKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA
Nelson-Harkins Industries 2023 N Damen Av Chicago Ill
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway, New York 13 NY
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Premax Prods Div Chisolm-Ryder Co Inc Hyland & College Av Niagara Falls NY
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Rustic Furniture Co Inc Williamstown NJ
Safe Padlock & Hdwe Co Second & Crystal Lancaster Pa
Sager-Bartows Div Yale & Towne Mfg Co Berrien Springs Mich
Slaymaker Lock Co 115 S West End Av Lancaster Pa
Spanjer Bros Inc 1660 N Howe Chicago Ill
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Trio Letters Inc 329 Woodlawn Aurora Ill
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio

OFFICE MACHINES & EQUIPMENT

Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio
Ajax Time Stamp Co 368 Broadway New York NY
Autographic Register Co Hoboken NJ
BERGER MFG CO DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Burgess Co Inc Beaver Falls Pa
Burroughs Corp 6071 Second Blvd Detroit Mich
Calculagraph Co Harrison NJ
Clary Multiplier Corp 408 Junipero San Gabriel Cal
Davidson Mfg Corp 29 Ryerson Brooklyn 5 NY
Dick (A B) Co 5700 W Touhy Av Chicago 31 Ill
Egry Register Co 429 E Monument Dayton 2 Ohio
Elliott Addressing Machine Co 143 Albany Cambridge 39 Mass
Felt & Tarrant Mfg Co 1735 N Paulina Chicago Ill
Ferris Business Equipment Inc 244 Great Meadows Rd Stratford Conn
Friden Calculating Machine Co San Leondro Cal
Hamilton Autographic Register Co Hamilton
Heyer Corp 1850 S Kostner Chicago Ill
Indiana Cash Drawer Co Shelbyville Ind Ohio
International Business Machines Corp 599 Madison Av New York 22 NY
Kirk Plastics Co 170 E Jefferson Blvd Los Angeles 11 Cal
Lightning Adding Machines Sales Co 234 W 37th Pl Los Angeles 7 Cal
Marchant Calculating Machine Co 1475 Powell Oakand 8 Cal
Master Addresser Co 6500 W Lake Minneapolis 16 Minn
McCaskey Register Co Alliance Ohio
Meilicke Systems Inc 3458-60 N Clark Chicago 13 Ill
Monroe Calculating Machine Co Inc 555 Mitchell Orange NJ
Mosler Safe Co 320 Fifth Av New York 1 NY
National Cash Register Co South Main & "K" Dayton 9 Ohio
Northwest Metal Prods Co 1337 E Mason Green Bay Wis
Ohmer Register Co Dayton Ohio
Patent Novelty Co Inc Fulton Ill
Peck & Harvey 5650 N Western Av Chicago Ill
REMINGTON RAND INC 315 FOURTH AV NEW YORK 10 NY
Smith-Corona Inc 701 E Washington Syracuse 1 NY
Speed-O-Print Corp 1801 W Larchmont Chicago 13 Ill
Standard Register Co Dayton 1 Ohio
Swift Business Machines Corp 51 Church Great Barrington Mass
Todd Co Inc Rochester 3 NY
Tucker-Dorsey Mfg Corp Indianapolis Ind
UARCO Inc 5000 S California Chicago 32 Ill
Underwood Corp 1 Park Av New York 16 NY
Victor Adding Machine Co 3900 N Rockwell Chicago Ill

OIL, LEAD MIXING

Bisbee Linseed Co Inc 2013 Butler Box 278 Chicago Heights Ill
Breinig Bros Inc 223 Adams Hoboken NJ
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
National Lead Co 111 Broadway New York 6 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

OIL, LINSEED

Archer-Daniels-Midland Co 600 Roanoke Bldg Minneapolis 2 Minn
Bisbee Linseed Co Box 278 2013 Butler Chicago Heights Ill
DeMert & Dougherty 3001 W 47 Chicago 32 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Jersey City NJ
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Gordon Chemical Co Inc 1100 Hickory Kansas City Mo
Interstate Oil Co 250 S 5th Kansas City 1 Kan
Kellogg (Spencer) & Sons Corp Niagara Sq Buffalo NY
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
Linseed Oil Prods Co 355 Del Monte Pasadena Cal
Mobile Paint Mfg Co Box 1686 Mobile Ala
National Lead Co 111 Broadway New York 6 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Spencer-Kellogg & Sons 98 Delaware Av Box 989 Buffalo 5 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Technical Oil Div South Tex Cotton Oil Co Houston Tex

OUTLETS, ELECTRIC

All-Steel Equip Co Inc 245 John Aurora Ill
Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill
ARROW-HART & HEGEMAN ELECTRIC CO 103 HAWTHORNE HARTFORD CONN

Bell Electric Co 1844 W 21st Chicago 8 Ill
Bryant Electric Co 1421 State Bridgeport 2 Conn
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
GENERAL ELECTRIC CO CONSTRUCTION MATERIAL DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
Gits Molding Corp 4600 W Huron Chicago 44 Ill
Hubbell (Harvey) Inc State & Bostwick Av Bridgeport 2 Conn
Pass & Seymour 50 Boyd Av Syracuse 9 NY
Sierra Elec & Mfg Co 44 E 31st Los Angeles Cal
Square D Co 6060 Rivard Detroit Mich
Weber Electric Co Schenectady NY

OVENS, OUTDOOR & DUTCH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Hancock Iron Wks 52 W Pike Pontiac Mich
Kraus (Walter S) Co 48-02 43rd Woodside NY
MAJESTIC CO HALL ST HUNTINGTON IND
Mexico Refractories Co Love & Cole Mexico Mo
Outdoor Oven Fireplace Co 859 Windsor Hartford 1 Conn
Poulsen & Nardon Inc Soto & Leonis Blvd Los Angeles 11 Cal
PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY
Western Foundry Co 2400 SW Water Av Portland 1 Ore

PAINT APPLICATORS, ROLLER, AIR PRESSURE

Bentzinger Bros 317 N 3rd St Louis 2 Mo
Carlson (A B) & Co 349 Woodlawn Aurora 4 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
E-Z Painter Corp 4051 S Iowa Av Milwaukee 7 Wis
Hanlon & Goodman Co Belleville NJ
Jacobus' (A G) Sons Inc Verona NJ
Lowe Bros 436 E 3rd Dayton 2 Ohio
Meinhardt (J A) & Co 30 W Kinzie Chicago Ill
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
Rubberset Co 56 Ferry Newark 5 NJ
Whiting-Adams Co Inc 700 Harrison Av Boston 18 Mass

PAINT SPRAY GUNS

Binks Mfg Co 3124 W Carroll Chicago Ill
Black Mfg Co 201 Second Harrison NJ
Brown (W R) Corp 2701 N Normandy Av Chicago 35 Ill
Burgess Vibrocrafters Inc Grayslake Ill
COLORCRETE INDUSTRIES INC 24TH & OTTAWA HOLLAND 1 MICH
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
DeVilbiss Co 300 Phillips Toledo Ohio
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Electric Sprayit Co 1415 Illinois Av Sheboygan Wis
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
Paasche Air Brush Co 1909 W Diversey Pkwy Chicago 14 Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill
Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
Saylor-Beall Mfg Co 401 Kibbie St Johns Mich
Sellco Corp 157 W Kellogg Blvd St Paul 2 Minn
Stewart-Warner Corp 1828 Diversey Pkwy Chicago 14 Ill

PAINT & VARNISH REMOVERS

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
American-Marietta Co 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Barr (W M) & Co Box 3518 Memphis 6 Tenn
Bengal Co 214 St Nicholas Av New York 27 NY
Berry Bros Inc 211 Leib Detroit 7 Mich
Boston Varnish Co 114 Second Boston Mass
Boyer Chemical Laboratory Co 2232 S Wabash Av Chicago 16 Ill
Boyle-Midway Inc 22 E 40th New York 16 NY
Breinig Bros Inc 1st & Harrison Hoboken NJ
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chemical Supply Co 3240 Norton Cleveland Ohio
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Cook Paint & Varnish Co 1412 Knox Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Elliott Paint Varnish Wks 4523 W Fifth Av Chicago 24 Ill
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Forman-Ford & Co 111 E Second Minneapolis Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio
Haynes Prods Co 4007 Farnam Omaha 3 Neb
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Industrial Chemical Sales Div West Virginia Pulp & Paper Co 230 Park Av New York 17 NY
Keystone Varnish Corp 71 Otsego Brooklyn 31 NY
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
Lowebco 1525 E 53rd Chicago 15 Ill
Lowe Bros 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 Quarry Chicago 8 Ill
Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
Oakite Prods Inc 19 Rector New York 6 NY
O'Brien Corp 101 N Johnson South Bend 22 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Pierce & Stevens Inc 710 Ohio Buffalo 3 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Stanley Chemical Co East Berlin Conn
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Valentine & Co Inc 11 E 36th New York NY
Vita-Var Corp 10 Commerce Ct Newark NJ
Wadsworth-Howland & Co 141 Federal Boston Mass
Wilson Imperial Co 115 Chestnut Newark NJ
Woodfinishing Prods Co 34 Industrial New York 61 NY

PAINTS, ACIDPROOF

Abesto Mfg Corp 131 Wabash Michigan City Ind
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Atlas Mineral Prods Co Mertztown Pa
Boston Varnish Co 114 Second Boston Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Cheeseman-Elliot Co Inc 645 Kent Av Brooklyn 11 NY
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours Co 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4623 W Fifth Av Chicago 24 Ill
Glidden Co 11001 Madison Cleveland 2 Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Haynes Prods Co 4007 Farnum Omaha Neb
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Lowebco Inc 1525 E 53rd Chicago 15 Ill
Lowe Bros Co 436 E Third Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md
Mobile Paint Mfg Co Box 1686 Mobile Ala
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL
Nukem Prods Corp 111 Colgate Av Buffalo 20 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Quigley Co Inc 527 Fifth Av New York 17 NY
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Sapolin Paints Co Inc 229 E 42nd New York 17 NY
Sherwin-Wiliams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa
Sullivan Co 212 E Trigg Memphis 2 Tenn
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Valentine & Co Inc 11 E 36th New York NY
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, ALUMINUM, BRONZE & GOLD

Abesto Mfg Corp 131 Wabash Michigan City Ind
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Arnesto Paint Co Inc 550 W 46th New York 19 NY
Badger Corrugating Co 1801-39 West Avenue S LaCrosse Wis
Boston Varnish Co 114 Second Boston Mass
C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Cheeseman-Elliot Co Inc 645 Kent Av Brooklyn 11 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 Third S Minneapolis 15 Minn
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Crescent Bronze Powder Co 116 W Illinois Chicago 10 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill

FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forman-Ford & Co 111 E Second Minneapolis Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Glidden Co Berea Rd & Madison Cleveland Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Hoboken White Lead & Color Wks Inc 15th & Adams Hoboken NJ
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc 10th 44th Av Long Island City 1 NY
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) Co 1124-32 W Carson Pittsburgh 19 Pa
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Lowe Bros Co 436 E Third Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 18 Ill
Masury (John W) & Son 1700 Bayard Baltimore 30 Md
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Quigley Co Inc 527 Fifth Av New York 17 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Kan
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) & Sons Inc Building Prods Div 404 4th Av New York 16 NY
Speco Inc 7308 Associate Av Cleveland Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
US Gutta Percha Paint Co 12 Dudley Providence 1 RI
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Weatherguard Service Inc 564 Jackson Av New York 55 NY
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

▶ PAINTS, ASPHALT

Abesto Mfg Corp 131 Wabash Michigan City Ind
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
American-Marietta Co 101 E Ontario Chicago 1 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Tex Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY
Boston Varnish Co 114 2nd Boston 49 Mass
Breinig Bros Inc 223 Adams Hoboken NJ
CALBAR PAINT & VARNISH CO 2612-24 N MARTHA PHILADELPHIA 25 PA
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Ceresit Waterproofing Corp 3227 S Shields Chicago 16 Ill
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Cheeseman-Elliot Inc 647 Kent Av Brooklyn 11 NY
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Dad & Lad Co New Lenox Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W 5th Av Chicago 24 Ill
Evercrete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Ford Roofing Prods Co 188 W Randolph Chicago Ill
Forman-Ford & Co 111 S 2nd Minneapolis Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Glidden Co Berea Rd at Madison St Cleveland 2 Ohio
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co 2023 S Clark Chicago 16 Ill
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kyanize Paints Inc 2nd & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lehon Co 4425 S Oakley Chicago 9 Ill
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
Monarch Paint Co Peoria Ill
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
O'Brien Corp 101 N Johnson South Bend 21 Ind
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Parker (Ira) & Sons Co Oshkosh Wis
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Quigley Co Inc 527 5th Av New York 17 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Rogers Paint Prods Inc 8250 St Aubin Av Detroit 11 Mich
Rohloff Co 918 N Western Av Los Angeles 27 Cal
RUBEROID CO 500 5TH AV NEW YORK 36 NY
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) & Sons Inc Building Prods Div 404 4th Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Texas Co 135 E 42nd New York 17 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff & Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Ct Newark NJ
Weatherguard Service Inc 564 Jackson Av New York 55 NY
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

▶ PAINTS, AWNING

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Aridye Corp Fair Lawn NJ
Astrup Co 2937 W 25th Cleveland Ohio
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Textile Colors Div Interchemical Corp Plaza Rd Fair Lawn NJ

▶ PAINTS, CEMENT

American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
AMERICAN STA-DRI 4019 38TH BRENTWOOD MD
Armor Laboratories Inc Commercial & Doran Glendale 3 Cal
Breinig Bros 223 Adams Hoboken NJ
Burdsal (A) Co 208 W Georgia Indianapolis Ind
Carbola Chemical Co 46 Harris Rd Natural Bridge NY
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Carolina Perlite Co Box 158 Salisbury NC
Cemix Co 433 Maple Av Downers Grove Ill
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
COLORCRETE INDUSTRIES INC 24TH & OTTAWA HOLLAND 1 MICH
Con-Cor Co 4550 Main Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) De Nemours Co 1007 Market Wilmington 98 Del
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lowe Bros 436 E 3rd Dayton 2 Ohio
Made-Rite Prods Inc 2410 S 7th St Louis Mo
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Penslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rex Prods Co 9930 Freeland Detroit 27 Mich
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sika Chemical Corp 35 Gregory Av Passaic NJ
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vorac Co 147 Meadow Rd Rutherford NJ
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal

▶ PAINTS, COLDWATER & CASEIN

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Burdsal (A) Co 206 S Capitol Indianapolis 9 Ind
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Bronze & Color Wks 2601-75 W Grand Av Chicago 12 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo

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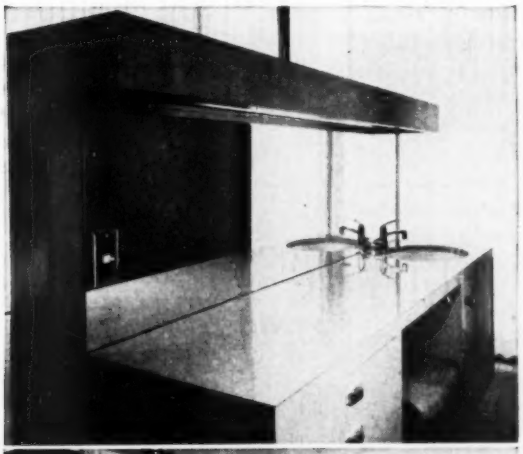

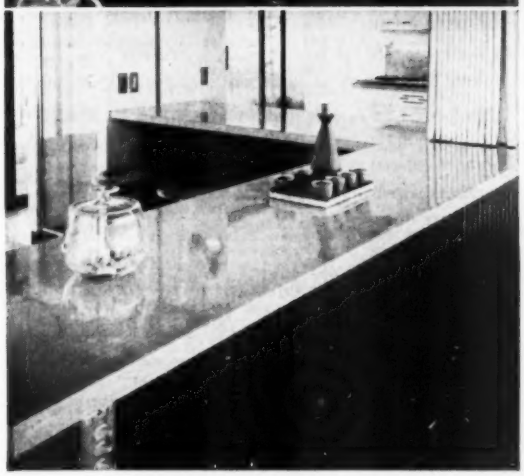

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DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio
General Paint Corp 2627 Army San Francisco 19 Cal
Glidden Co Berea Rd & Madison St Cleveland Ohio
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Made-Rite Prods Inc 2410 S 7th St Louis Mo
Mobile Paint Mfg Co Box 1686 Mobile Ala
Muralo Co Inc 572 Richmond Terrace Staten Island 1 NY
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Parker (Ira) & Sons Co Oshkosh Wis
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 6 Mo
Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reardon Co 7501 Page Av St Louis 14 Mo
Rogers Paint Prods Inc 8250 St Aubin Av Detroit 11 Mich
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Standard Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal
Wesco Waterpaints Inc Matteson Ill
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, CONCRETE, BRICK, STUCCO

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 29 Ohio
American-Marietta Co 101 E Ontario Chicago 11 Ill
AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD
American Varnish Co 1140 N Branch Chicago 22 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Armor Laboratories Inc Commercial & Doran Glendale 3 Cal
Arnesto Paint Co Inc 550 W 46th New York 19 NY
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa
Blue Ridge Talc Co Inc Henry Va
Boston-Varnish Co 114 Second Everett Mass
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
Builders Prods 105 W Adams Chicago 3 Ill
Burdsal (A) Co 206 S Capitol Indianapolis 9 Ind
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
Celadri Corp of New York Columbus Av North Bellmore NY
Cemix Co 433 Maple Av Downers Grove Ill
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill
Cheeseman-Elliot Co Inc 647 Kent Av Brooklyn 11 NY
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
COLORCRETE INDUSTRIES INC HOLLAND MICH
Con-Cor Co 4550 Main Kansas City Mo
Coprox Sales Inc 1270 Sixth Av New York NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Dugan Stone Patcher & Stain Prods 8115 Kenwood Av Chicago 19 Ill
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Evercrete Corp 424 W 42nd New York 36 NY
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Forman-Ford & Co 111 E Second Minneapolis Minn
Fox (M Ewing) Co Inc 136th & Rider Av New York 51 NY
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio
General Paint Corp 2627 Army San Francisco 19 Cal
Glidden Co Beren Rd & Madison Cleveland Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Hoboken White Lead & Color Wks Inc 15th & Adams Hoboken NJ
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio
KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ
Kenitex Corp 854 S Robertson Blvd Los Angeles 35 Cal
Keystone Paint & Varnish Corp 71 Otsego Brooklyn 31 NY
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowebco Inc 1525 E 53rd Chicago 15 Ill
Lowe Bros Co 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
Moore (Benjamin) & Co 511 Canal New York NY
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 11 Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Av N W Cleveland 13 Ohio
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Prima Prods Inc 10 E 40th New York 16 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Rocbond Prods Co Van Wert Ohio
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Smooth-On Mfg Co 572 Communipaw Av Jersey City 4 NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS NEW EAGLE PA
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 8 Pa
Sullivan Co 212 E Trigg Memphis 2 Tenn
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Surface Protection Co 16799 Euclid Av Cleveland 12 Ohio
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tremco Mfg Co 8701 Kinsman Cleveland 4 Ohio
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill
Troyer Driveway Service 2157 South Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Truck Ry Detroit 11 Mich
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Wesco Waterpaints 742 Grayson Berkeley 10 Cal
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, CREOSOTE

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Burdsal (A) Co 208 W Georgia Indianapolis Ind
C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky

PAINTS, DDT

Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Unexcelled Chemical Corp 350 Fifth Av New York 1 NY

PAINTS, DRY KILN

American Varnish Co 1140 N Branch Chicago 22 Ill
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Black Cat Corp W Laurel Av Hattiesburg Miss
Breinig Bros 1st & Harrison Hoboken NJ
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Dewatex Mfg Corp 424 W 42nd New York 18 NY
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
Moore Dry Kiln Co 1220 W State Jacksonville 1 Fla
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
Parker (Ira) & Sons Co Oshkosh Wis
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Quigley Co Inc 527 Fifth Av New York 17 NY
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Wilbur & Williams Co 130 Lincoln Boston 35 Mass

PAINTS, FUNGUS REPELLING

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Glidden Co 11001 Madison Cleveland 2 Ohio
Glove Paint Wks Inc 202 Market Williamsport 5 Pa

take a good look at SUGAR PINE

one of 10 woods from the WESTERN PINE region

Light-weight, strong, little shrinkage, workable, nailable, soft and uniform-textured, light colored—Sugar Pine fits all these specifications! Most versatile of all softwoods, Sugar Pine fills the bill for everything from house construction to foundry patterns—piano keys to stadiums!

Sugar Pine comes in **3 select, 5 common, 4 factory grades.** It's in good supply and available in straight or mixed cars together with other woods from the Western Pine region!

the Western Pines
- IDAHO WHITE PINE
- PONDEROSA PINE
- SUGAR PINE

the Associated Woods
- LARCH
- DOUGLAS FIR
- WHITE FIR
- ENGELMANN SPRUCE
- INCENSE CEDAR
- RED CEDAR
- LODGEPOLE PINE

SP

get the facts on SUGAR PINE
write for the FREE illustrated booklet to
WESTERN PINE ASSOCIATION
Yeon Bldg., Portland 4, Oregon

IN YOUR NEXT HOME ADD *Showmanship* WHERE IT *Pays Off!*

- **Make the Bathroom the "Showroom"!**
- **Display "Custom Features" before your prospect's eyes!**
- **Create instant "Sales Appeal" that stops 'em and sells 'em your homes!**

Beauti-Dor

TUB ENCLOSURE
THICK GLASS — HEAVY RUSTPROOF ALUMINUM

$74.95* $89.95*
5 ft. size Retail — 5½ ft. size Retail

Contractors' prices are considerably lower

"Add showmanship where it pays off!" Feature a custom designed bathroom in your homes. BEAUTI-DOR will make any 5 or 5½ ft. recessed tub into a glamorous, glimmering aluminum and glass shower enclosure. BEAUTI-DOR comes in one carton—completely assembled—glass and all! Takes less than 30 minutes to install! Silent, double overhead ball-bearing rollers. Exclusive glass pattern—7/32" thick. Buna-S rubber glass channels. Mastic included. Height 59¼". Shpg. wt. 95 lbs.

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ADJUSTABLE SHOWER DOOR
SELF LEVELING • SELF ADJUSTING

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JAMBS ADJUST TO OUT-OF-PLUMB WALLS WITHOUT FILLERS

Now—a complete Shower Door, with glass already installed, is shipped to you individually cartoned. Now—you can order your Shower Doors ahead of time for your buildings—store them in your warehouse as they come from our factory—ready for instant installation. Specify your sizes for openings required—DOORS ADJUST FROM 24 to 28". No cutting! No glazing! No extra parts! Gleaming, thick, rust-proof aluminum—exclusive glass patterns. Self draining splash. Continuous piano hinge. Height 66". Shpg. wt. 45 lbs.

MAIL COUPON FOR THE FACTS TODAY!

Shower Enclosures, Inc.
1227-D West Devon Ave. Chicago 40, Illinois

Gentlemen: Please send me complete details about the
____ Beauti-Dor Tub Enclosure. ____ Beauti-Dor Shower Door.

Name.....
Address.....
City.....Zone.....State.....

* Prices slightly higher West of Rockies.

Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Lowe Bros Co 436 E Third Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Meta-Kote Corp Gardner Bldg Toledo 4 Ohio
Mobile Paint Mfg Co Box 1686 Mobile Ala
O'Brien Corp 101 N Johnson South Bend 21 Ind
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sherwin-Williams Co 101 Prospect Av Cleveland Ohio
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff & Grand Trunk RR Detroit 11 Mich
Vita-Var Corp 10 Commerce Ct Newark NJ
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, INSECT KILLING

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Carbola Chemical Co 46 Harris Rd Natural Bridge N Y
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Superior Paint & Varnish Wks 2256 N Elston Chicago Ill

PAINTS, LEAD

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
American-Marietta Co 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Baker Paint & Varnish Co 128-232 Suydam Av Jersey City 4 NJ
Breinig Bros Inc 1st & Harrison Hoboken NJ
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Cheeseman-Elliot Co Inc 647 Kent Av Brooklyn 11 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dewatex Mfg Corp 424 W 42nd New York 18 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Sts Jersey City, NJ
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harbil Mfg Co Inc 310 W Ohio Chicago 10 Ill
Inland White Lead Co Franklin Park Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp Dept L-4 South Bend 21 Ind
Parker (Ira) & Sons Co Oshkosh Wis
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sellers Paint & Varnish Co 831 E 61st Los Angeles Cal
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Newark NJ

PAINTS, LEAD-IN-OIL

Acme White Lead & Color Wks 8250 St Aubin Detroit 11 Mich
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Arnesto Paint Co Inc 550 W 46th New York 19 NY
Boston Varnish Co 114 Second Everett Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Glidden Co 11001 Madison Cleveland 2 Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Hoboken White Lead & Color Wks 15th & Adams Hoboken NJ
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
King (E & F) & Co Inc 640 Pleasant Norwood Mass
Kyanize Paints Inc 2nd & Boston Everett 49 Mass
Lowe Bros Co 436 E 3rd Dayton 2 Ohio
National Lead Co 111 Broadway New York 6 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Valentine & Co Inc 11 E 36th New York NY
Vita-Var Corp 10 Commerce Ct Newark NJ

PAINTS, MARINE

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Boston Varnish Co 114 Second Boston 49 Mass
Breinig Bros 223 Adams Hoboken NJ
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Cheesman-Elliot Co Inc 647 Kent Av Brooklyn 11 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio
DuPont (E I) de Nemours Co Inc 1007 Market Wilmington 98 Del
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Forman-Ford & Co 111 S 2nd Minneapois 1 Minn
General Paint Corp 2627 Army San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Sts Jersey City 6 NJ
Glidden Co Berea Rd & Madison St Cleveland Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Horn (A C) Co Inc 10th & 44th Av Long Island City NY
Lowe Bros Co 436 E 3rd Dayton 2 Ohio
Lucas (John) & Co Inc 1619 Pennsylvania Blvd Philadelphia Pa
Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
Parker (Ira) & Sons Co Oshkosh Wis
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Av NW Cleveland 13 Ohio
Plymold Co 2707 Tulare Av Burbank Cal
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Quigley Co Inc 527 Fifth Av New York 17 NY
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
Sherwin-Williams Co 101 Prospect Cleveland Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Valentine & Co Inc 11 E 36th New York 16 NY
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, METALLIC

Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio
American-Marietta Co 101 E Ontario Chicago 11 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Breinig Bros Inc 223 Adams Hoboken NJ
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chicago Bronze & Color Wks 2601-12 W Grand Av Chicago 12 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Crescent Bronze Powder Co 116 W Illinois Chicago 10 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
DuPont (E I) de Nemours Co Inc 1107 Market Wilmington 98 Del
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa
Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn
General Paint Corp 2627 Army San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Sts Jersey City 6 NJ
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harbil Mfg Co 325 W Ohio Chicago 10 Ill
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lockrey Co Southampton NY
Lowe Bros 436 E 3rd Dayton 2 Ohio
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
Monarch Paint Co Peoria Ill
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Parker (Ira) & Sons Co Oshkosh Wis
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 11 Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Av NW Cleveland 13 Ohio
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind

St Louis Surfacer & Paint Co 4200 Arlington Av St Louis 20 Mo
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland Ohio
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) & Sons Inc Buiding Prods Div 404 Fourth Av New York 16 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Valentine & Co Inc 11 E 36th New York NY
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 46 Albert Newark 2 NJ
Weatherguard Service Inc 564 Jackson Av New York 55 NY

▶ PAINTS, OIL

Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich
Acme White Lead & Color Wks 8250 St Aubin Detroit 11 Mich
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
American Varnish Co 1136 N North Branch Chicago 22 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Armstrong Paint & Varnish Wks 1330 S Kilbourn Chicago 23 Ill
Arnesto Paint Co Inc 550 W 46th New York 19 NY
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Berry Bros 211 Leib Detroit 7 Mich
Boston Varnish Co 114 Second Everett Sta Boston Mass
Bradley & Vrooman Co 2629 S Dearborn Chicago 16 Ill
Breinig Bros 223 Adams Hoboken NJ
Burdsal (A) Co 208 W Georgia Indianapolis Ind
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Central Paint & Varnish Wks 59 Prospect Brooklyn NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Enterprise Paint Mfg Co 2841 S Ashland Chicago Ill
Felton Sibley & Co 136 N 4th Philadelphia 6 Pa
Forman-Ford & Co 111 S Second Minneapois 1 Minn
Foy Paint Co 1776 Mentor Av Cincinnati 12 Ohio
Fuller (W P) & Co Inc 301 Mission San Francisco 19 Cal
General Paint Corp 2627 Army San Francisco 19 Cal
Gillespie Varnish Co Dey & Howell Sts Jersey City 6 NJ
Glastic Corp North Kansas City 16 Mo
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio
Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill
Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio
Heath & Milligan Mfg Co Div Glidden Co 1833 S Normal Chicago Ill
Hoboken White Lead & Color Wks Inc 15th & Adams Hoboken NJ
Hooker Glass & Paint Mfg Co 659 W Washington Chicago Ill
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Indianapolis Paint & Color Co Capitol & Thiel Sts Indianapolis Ind
Interchemical Corp Wooster Unit Wooster Ohio
Jewel Paint & Varnish Co 345 N Western Chicago Ill
Johnston (K F) Paint Co 3925 Huston Av Cincinnati 12 Ohio
Keystone Varnish Co 71 Otsego Brooklyn 31 NY
King (E & F) & Co Inc 640 Pleasant Norwood Mass
Kurfees (J F) Paint Co 201 E Market Louisville Ky
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
Linseed Oil Prods Co 359 Del Monte Pasadena 3 Cal
Lowe Bros Co 436 E Third Dayton 2 Ohio
Lucas (John) & Co 1619 Pennsylvania Blvd Philadelphia Pa
Marietta Paint & Color Co Marietta Ohio
Martin-Senour Co 2520 S Quarry Chicago Ill
Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
McMurtry Mfg Co 1533 Arapahoe Denver Colo
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
Monarch Paint Co Peoria Ill
Moore (Benjamin) & Co 509 Canal New York NY
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY
Murphy Finishes Corp 67 W 44th New York 18 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
National Lead Co 111 Broadway New York 6 NY
National Mfg Corp 3343 Flanagan Tonawanda NY
Nu-Enamel Corp 444 N Lake Shore Chicago 3 Ill
O'Brien Corp 101 N Johnson South Bend 21 Ind
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Parker (Ira) & Sons Oshkosh Wis
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Perma Prods Co 7007 Morgan Av Cleveland 4 Ohio
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plasti-Kote Co 425 Lakeside Ave NW Cleveland 13 Ohio
Pontiac Varnish Co Pontiac 12 Mich
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Rockford Paint Mfg Co 200 Sayre Rockford Ill
St Louis Surfacer & Paint Co 4200 Arlington Av St Louis 20 Mo
Sapolin Paints Inc 229 E 42nd New York 17 NY
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Seal Rite Caulking Co 6335 Lyndon Av Detroit Mich
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sewall Paint & Varnish Co 1009-11 W 8th Kansas City Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Standard Toch Chemicals Inc 2600 Richmond Ter Staten Island 3 NY
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sullivan Co 212 Trigg Memphis 2 Tenn
Toch Bros Inc 2600 Richmond Ter Staten Island NY
Tremco Mfg Co 8701 Kinsman Rd Cleveland 4 Ohio
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Twentieth Century Paint & Varnish Co 456 Driggs Av Brooklyn 11 NY
Valentine & Co Inc 11 E 36th New York NY
Vita-Var Corp 10 Commerce Ct Newark NJ
Wadsworth Howland & Co 141 Federal Boston Mass
Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass
Wilhelm (A) Co Div Glidden Co 3rd & Bern Reading Pa

▶ PAINTS, PLASTER

Alton Laboratories 207 S Green Chicago Ill
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Bro-Ca-Do Inc 2841 S Ashland Chicago Ill
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Con-Cor Co 4550 Main Kansas City Mo
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Enterprise Paint Mfg Co 2841 S Ashland Chicago Ill
Forman-Ford & Co 111 E Second Minneapolis Minn
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Glastic Corp North Kansas City 16 Mo
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lowe Bros 436 E 3rd Dayton 2 Ohio
Lowebco Inc 1525 E 53rd Chicago Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Mobile Paint Mfg Co Box 1686 Mobile Ala
Monarch Paint Co Peoria Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vorac Co 147 Meadow Rd Rutherford NJ
Wesco Waterpaints 5th & Grayson Berkeley 10 Cal

▶ PAINTS, PLASTIC

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Atlas Mineral Prods Co Mertztown Pa
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Corrosite Corp 64 S 6th Brookyn 11 NY
Evercrete Corp 424 W 42nd New York 36 NY
GENERAL ELECTRIC CO CHEMICAL DEPT 1 PLASTICS AV PITTSFIELD MASS
Hollinshead (R M) Corp 840 Cooper Camden 2 NJ
Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Plasti-Kote Inc 425 Lakeside Av NW Cleveland 13 Ohio
Plymold Co 2707 Tulare Av Burbank Cal
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ

▶ PAINTS, RUBBER BASE

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Atlas Mineral Prods Co Mertztown Pa
Bradley & Vrooman Co 2629 S Dearborn Chicago 16 Ill
Burdsal (A) Co 208 W Georgia Indianapolis Ind
Camp Co Inc 6958 S State Chicago 21 Ill
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Forman-Ford & Co 111 E Second Minneapolis Minn
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
General Paint Corp 2627 Army San Francisco 19 Cal
Glidden Co Berea Rd 8 Madison Cleveland 2 Ohio
Globe Paint Wks Inc 202 Market Williamsport 5 Pa
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros 436 E 3rd Dayton 2 Ohio
Maas & Waldstein 2121 McCarter Hwy Newark 4 NJ
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY

You'll capture their hearts

with a Gold Bond grainboard kitchen

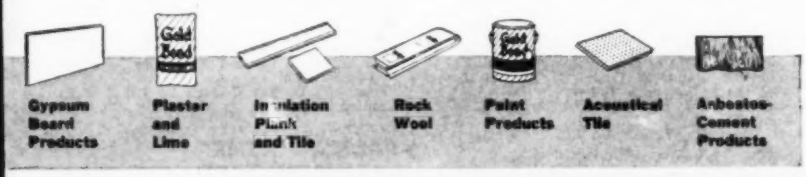
WHETHER you're building a new house—or remodeling an old one, you can give it extra heart appeal—and sales appeal with Gold Bond Gypsum Grainboard.

The warm, antique beauty of Grainboard harmonizes with the national swing to Early American atmosphere in the home. It has all the beauty of expensive wood paneling... and yet it costs far less. Goes up fast—covers large areas at a time—and it's fireproof, too. Two convenient widths... large four-foot panels or handy, lightweight 16-inch planks.

Gold Bond Gypsum Grainboard saws and nails as easily as wood. Nails are colored to match the finishes! You can be sure that your customers will like one of the three rich finishes: Knotty Pine, Dark Walnut and Bleached Walnut. Write today for free samples!

And you don't have to stop with a good-looking kitchen! You can also give your customers the finest looking gamerooms, dens or bedrooms they've ever seen with this handsome, versatile Gold Bond Grainboard. It gives your homes that "extra" finishing touch ... that "extra" appeal that closes the deal!

Get the undivided responsibility of National Gypsum use **Gold Bond** inside and out



NATIONAL GYPSUM COMPANY • BUFFALO 2, NEW YORK

Mobile Paint Mfg Co Box 1686 Mobile Ala
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Quigley Co Inc 527 Fifth Av New York 17 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Sapolin Paints Inc 229 E 42nd New York 17 NY
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal
Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa
Wilbur & Williams 130 Lincoln Brighton 35 Boston Mass

PAINTS, SYNTHETIC RESIN

American-Marietta Co Valdura Div 101 E Ontario St Chicago 11 Ill
Arnesto Paint Co Inc 550 W 46th New York 19 NY
Atlas Mineral Prods Co Mertztown Pa
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI
Boston Varnish Co 114-2nd Everett Sta Boston Mass
Burdsal (A) Co 208 W Georgia Indianapolis Ind
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY
Illinois Bronze Powder Co 2023 S Clark Chicago 16 Ill
Jewel Paint & Varnish Co 349 N Western Av Chicago Ill
Keystone Paint & Varnish Corp 71 Otsego Brooklyn 31 NY
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lowe Brothers Co 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md
Minnesota Paints Inc 1101 3rd S Minneapolis 15 Minn
Minnesota Platon Corp Platon Bldg Pipestone Minn
MIRACLE ADHESIVE CORP 214 E 53RD NEW YORK 22 NY
Moore (Benjamin) & Co 511 Canal New York 13 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO ILL
United Lacquer Mfg Corp 1001 W Elizabeth Av Linden NJ
Valentine Co Inc 11 E 36th New York NY
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Vita-Var Corp 10 Commerce Ct Newark NJ
Vorac Co 147 Meadow Rd Rutherford NJ
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal
Wesco Waterpaints Inc Maple St Matteson Ill
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PAINTS, TEXTURE

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich
American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill
Arco Co 7301 Bessemer Cleveland 4 Ohio
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Con-Cor Co 4550 Main Kansas City Mo
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Forman-Ford & Co 111 E Second Minneapolis Minn
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids Mich
Lowebco 1525 E 53rd Chicago 15 Ill
Made-Rite Prods Inc 2410 S 7th St Louis Mo
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
Reardon Co 7501 Page Av St Louis 14 Mo
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ
Wesco Waterpaints Inc Maple St Matteson Ill
Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal

PANELWORK, HARDWOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Bradley Lumber Co of Ark Warren Ark
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Curtis Cos Inc American Plywood Div New London Wis
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Flack Jones Lumber Co Inc Moncks Corner SC
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Hardwood Corp of America Box 1091 Asheville NC
HIGGINS INC BOX 8001 NEW ORLEANS LA
Marquart Millwork Co 50 Ceape Oshkosh Wis
National Plywoods Inc 2710 Throop Chicago Ill
OLYMPIC STAINED PRODS CO 1118 LEARY WAY SEATTLE WASH
Plytex Corp 1731 Elston Av Chicago 22 Ill
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

PANELWORK, SOFTWOOD

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill
Arrow Tank Co 16 Barnett Buffalo 15 NY
Bradley Lumber Co of Ark Warren Ark
Brooks-Scanlon Inc Bend Ore
CROSSETT LUMBER CO CROSSETT ARK
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Hardwood Corp of America Box 1091 Asheville NC
M & M Woodworking Co Kenton Sta Portland 3 Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
National Plywoods Inc 2710 Throop Chicago Ill
Plytex Corp 1731 Elston Av Chicago 22 Ill
Southern Lumber Co Warren Ark
SOUTHWOOD CORP BOX 391 FORT WORTH TEX
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Union Lumber Co 620 Market Bldg San Francisco 4 Cal
WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN

PAPER, ASBESTOS

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Ehret Magnesia Mfg Co Inc Crawford & County Line Rd Valley Forge Pa
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Protective Papers Inc Union Ill
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Sall Mountain Co 176 W Adams Chicago 3 Ill
Standard Asbestos Mfg Co 860 W Evergreen Chicago 7 Ill

PAPER, BUILDING

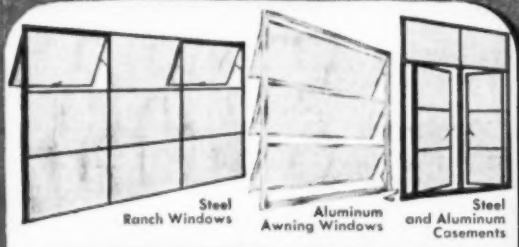
Allen Steel Prods Inc 2941 Ten-Mile Rd Hazel Park Mich
AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
BROWN CO 150 CAUSEWAY BOSTON 14 MASS
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Fleming & Sons Inc 1120 E Clarendon Dallas 8 Tex
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
Hewitt (C B) & Bros Inc 23 Green New York 13 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Meadows (W R) Inc 2 Kimball Elgin Ill
National Plywoods Inc 2710 Throop Chicago Ill
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
Prestite Engineering Co 3900 Chouteau Av St Louis Mo
Protective Papers Inc Union Ill
Ralston (W) & Co Box B Old Bridge NJ
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Thilmany Pulp & Paper Co Kaukauna Wis
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Welt & Sons Paper Co 426 W Larned Detroit 25 Mich

PAPER, BUILDING, REINFORCED, WATERPROOF

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Bonafide Mills Inc 295 Fifth Av New York NY

Who but TRUSCON *can offer you*

THE MOST COMPLETE LINE OF



Steel Ranch Windows — Aluminum Awning Windows — Steel and Aluminum Casements

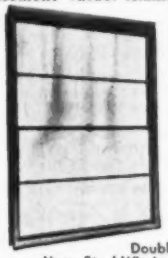
RESIDENTIAL WINDOWS

Truscon types for every style of architecture

RANCH types suited to one-story homes. Can be fitted with double insulating glass.

ALUMINUM AWNING WINDOW—Truscon's newest. Modular designed to match masonry dimensions. Strong; rigid. Vinyl plastic weatherstripping.

CASEMENTS, STEEL AND ALUMINUM—America's standard of casement value. Aluminum casement modular designed.



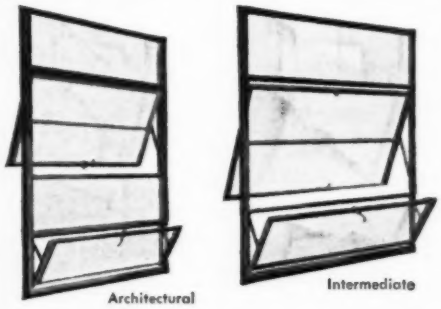
Double-Hung Steel Windows

DOUBLE-HUNG STEEL WINDOW—A Truscon exclusive. Largest selling unit of its type. Stainless steel weatherstripping and motor spring balances built in.

Screens and storm sash available.

Most popular types and sizes stocked in convenient Truscon warehouses.

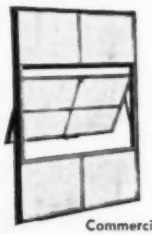
Steel Basement Windows



Architectural — Intermediate

PROJECTED WINDOWS

ARCHITECTURAL PROJECTED steel windows: ample light and ventilation, plus freedom from drafts. For buildings of all types. Heavy ventilator sections. Minimum air infiltration.



Commercial

INTERMEDIATE PROJECTED—great variety of sizes and design for every type of building—including residential. Special heavy sections. Projected ventilator movement provides flexible control and weather-protection.

COMMERCIAL PROJECTED. Ventilator projects in or out depending upon the need and space requirements. All-steel.

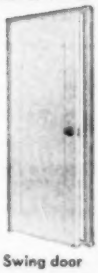
Many popular types and sizes stocked in convenient Truscon warehouses.

INTERIOR STEEL DOORS

Truscon STEEL DOORS and FRAMES won't warp, swell, shrink or stick. Bonderized and baked-on primecoats, readily painted. Available in many standard door opening dimensions.

Sliding closet door

SLIDING DOORS provide complete closet accessibility plus extra usable floor space. Economical to install. Precision-made, heavily reinforced. Slide easily, quietly on nylon rollers. 6' 8" and 8' 0" tall. Four opening widths: 3'0", 4'0", 5'0", 6'0".



Swing door

Popular sizes available through Truscon warehouse stocks.

INDUSTRIAL DOORS

Swing doors

Built to withstand hard usage. Made of carefully formed heavy gage tubular steel members, reinforced at corners and electrically welded at joints. Sturdy and well adapted to constant service requirements. Available in single and double slide and swing types, for standard door opening dimensions.

Sliding doors

METAL BUILDING PRODUCTS!

● Here are products you need on every construction job from the moment the first shovel of earth is turned. All are manufactured by Truscon—world's largest fabricator of steel building products—and feature the quality and craftsmanship you've the right to expect from the leader.

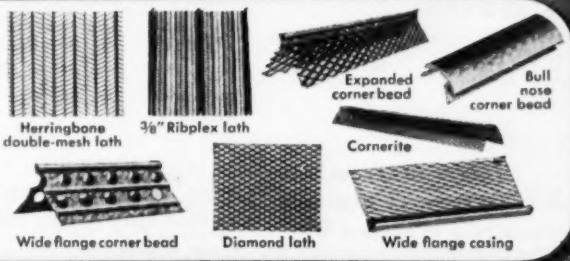
For example, Truscon steel windows are Bonderized, and given a baked-on prime coat of high quality Bakelite-base paint. They can't rot, warp, shrink, swell or stick. Truscon steel doors and frames assure perfect fit and permanent, trouble-free operation. Mass production and fast, easy installation mean important on-the-job economies.

Check the advantages of *all* the items listed here. Then concentrate on Truscon as the source for your metal building products—for dependability, for responsibility, and for quality backed by a fifty-year reputation of outstanding service to the building industry. Detailed literature describing all Truscon products will be sent you upon request.

METAL LATH and ACCESSORIES

"Metal Lath for Strength—Plaster for Beauty"

The plaster base for walls and ceilings that meets all requirements of modern construction; accepted by all building codes. Easy to erect and work over; easily formed into unusual shapes. Holds plaster firmly even when exposed to shock and vibration. Affords fire-resistive qualities.



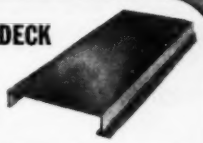
"O-T" OPEN TRUSS® STEEL JOISTS

Great rigidity. High fire resistance; simple to install. Lightweight. "O-T" Nailer Joists also available with wood nailer strips applied.

"CLERESPAN"® JOISTS

Provide clear spans up to 64 feet. Lightweight. Easily installed. Eliminate columns. Wood nailer strips easily attached.

FERROBORD® STEEL ROOFDECK

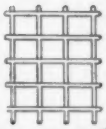


For any type of structure. Strong; lightweight. Roofs large areas quickly. Full-length interlocking. Units long enough to span over three or more purlin spacings.

REINFORCING BARS

For reinforcing concrete slabs, footings, walls, beams, girders, columns. Available from warehouse stocks.

WELDED WIRE FABRIC



Reinforces and protects concrete slabs in driveways, foundations, steps and floors. Available in rolls from warehouse stocks.

TRUSCON MARK OF MERIT PRODUCTS

TRUSCON® a name you can build on

Other Truscon Metal Building Products include: Maxim-Air, Donovan, Detention, Pivoted, and Security Steel Windows; Continuous Steel Windows; Lintels; Pressed Steel Inserts; Curb Bars; Expanded Metal; Complete Steel Buildings, Radio Towers.

TRUSCON STEEL DIVISION
REPUBLIC STEEL

1050 ALBERT STREET • YOUNGSTOWN 1, OHIO
Export Department: Chrysler Building, New York 17, New York

REPUBLIC STEEL

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Hosking Paper Co 1301 Lake Av Wilmette Ill
Meadows (W R) Inc 2 Kimball Elgin Il
Od American Roofing Mills 7600 Truman Rd Kansas City Mo
Protective Papers Inc Union Ill
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Thilmany Pulp & Paper Co Thilmany Rd Kaukauna Wis
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PAPER, CONCRETE CURING

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Hosking Paper Co 1301 Lake Av Wilmette Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Protective Papers Inc Union Ill
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Thilmany Pulp & Paper Co Kaukauna Wis
Wasco Flashing Co 87 Fawcett Cambridge Mass
Welt & Sons Paper Co 426 W Larned Detroit 25 Mich

PAPER, COPPER ARMORED

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN

PAPER, SILO LINER

Angier Corp Fountain St Framingham Mass
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Protective Papers Inc Union Ill
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Thilmany Pulp & Paper Co Kaukauna Wis

PAPER, STACK COVER

BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Protective Papers Inc Union Ill
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL

PARTITIONS, FOLDING

Curtition Co 2227 Sawtelle Blvd West Los Angeles Cal
Holcomb & Hoke Co 1545 Van Buren Indianapolis 7 Ind
HOUGH SHADE CORP 1203 S JACKSON JANESVILLE WIS
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
International Steel Co 1321 Edgar Evansville 7 Ind
NEW CASTLE PRODS CO NEW CASTLE IND

PARTITIONS, GLASS, STRUCTURAL

Allied Synthetic Co 4654 De Soto San Diego 9 Cal
ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL
Corrulux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex
Gensco Tool Div General Steel Warehouse Co 1830 N Kostner Av Chicago 39 Ill
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
LIBBEY-OWENS-FORD GLASS CO 12TH FLOOR NICHOLAS BLDG TOLEDO OHIO
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plymold Co 2707 Tulare Av Burbank Cal
Richards (J Merrill) 25 Huntington Av Boston 16 Mass

PARTITIONS, OFFICE, HARDWOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Craftwood Prods 94 Stevenson Belleville NJ
Petterson (J C) Co 3167 W Mission Rd Alhambra Cal
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal

PARTITIONS, PLASTIC BLOCKS

Bloxolite Co of America Div Hachmeister Inc 23rd & Forbes Pittsburgh Pa
Gensco Tool Div General Steel Warehouse Co 1830 N Kostner Av Chicago 39 Ill
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal

PARTITIONS, STEEL

Aetna Steel Prods Corp 730 Fifth Av New York 19 NY
Alabama Metal Lath Co Box 992 Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
All Metal Partition Co Inc 206 DuPont Brooklyn 22 NY
BERGER MFG CO DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich
Hauserman (E F) Co 6850 Grant Av Cleveland 5 Ohio
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
Macomber Inc 1925 10th NE Canton 1 Ohio
Mahon (R C) Co 8650 Mt Elliot Detroit 11 Mich
Martin-Parry Corp 1455 W Alexis Rd Box 964 Toledo Ohio
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
Mills Co 965 Wayside Rd Cleveland 10 Ohio
Milwaukee Stamping Co 824 S 72nd Milwaukee 14 Wis
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 3 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Sanymetal Prods Inc 1701 Urbana Rd Cleveland 12 Ohio
Steel Partitions Inc Box 807 Jamestown NY
Stran-Steel Div Great Lakes Steel Corp Ecorse Detroit 29 Mich
Virginia Metal Prods Inc Dept A-44 Orange Va
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal
Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
Wheeling Corrugating Co Wheeling W Va

PARTITIONS, TOILET

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
All Metal Partition Co Inc 206 DuPont Brooklyn 22 NY
FIAT METAL MFG CO 9301 BELMONT AV FRANKLIN PARK ILL
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
Petterson (J C) Co 3167 W Mission Rd Alhambra Cal
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

PARTITIONS, WOOD, FIBER, GYPSUM, OTHER COMPOSITIONS, MATERIALS FOR

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Bloxolite Co of America Div Hachmeister Inc Pittsburgh Pa
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Corrulux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex
Forest Fiber Prods Corp Box 66 AB Forest Grove Ore
Gensco Tool Div 1830 N Kostner Av Chicago 39 Ill
International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Macomber Inc 1925 Tenth Canton 1 Ohio
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Plytex Corp 1731 Elston Av Chicago 22 Ill
RESOLITE CORP ZELIENOPLE PA
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky
WRIGHT MFG CO 6567 HOUSTON 5 TEX

PASTE, WALLPAPER

Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland Ohio
Commercial Paste Co Buffles at Michigan Columbus 8 Ohio
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Crescent Prods Co Terre Haute Ind
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Le Page's Inc 40 Swanson Gloucester 41 Mass
Miner-Hillard Milling Co 826 Second Nat'l Bank Bldg Wilkes Barre Pa
Patent Cereals Co Bradford St Geneva NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sisk (R T) Co New London Conn
Stamford Wallpaper Co Inc Taylor & Manin Sts Stamford Conn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Wesco Waterpaints Inc Matteson Ill

PENCILS, CARPENTER'S

Blaisdell Pencil Co 141 Berkeley Philadelphia Pa
Cupples Co 401 S 7th St Louis 2 Mo
Dietzgen (Eugene) Co 2425 N Sheffield Av Chicago 14 Ill
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Eagle Pencil Co 703 E 13th New York 9 NY
Eberhard-Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
Economy Novelty & Printing Co 225 W 39th New York 18 NY
Faber-Castell (A W) Pencil Co 41 Dickerson Newark NJ
Keuffel & Esser Co Adams & Third Hoboken NJ
Koh-I-Noor Pencil Co 373 4th Av New York NY
Linton Pencil Co Lewisburg Tenn
Murphy (Thomas D) Co Red Oak Iowa
Renco 4372 W Ogden Chicago 23 Ill
Shedd-Brown Mfg Co 311-321 5th Av S Minneapolis 15 Minn
WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS

PENCILS, DRAFTING

Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
Eagle Pencil Co 703 E 13th New York 9 NY
Eberhard-Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
Faber-Castell (A W) Pencil Co 41 Dickerson Newark 4 NJ

PILING

Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Inland Steel Co 38 S Dearborn Chicago 3 Ill
Southwestern Creosoting Co Box 935 Muskogee Okla

PIPE, ASBESTOS CEMENT

CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Smith & Kanzler Inc E Linden Av Elizabeth NJ
Standard Mfg Co 220 E 4th Cedar Falls Iowa

PIPE, CAST IRON, SOIL & FITTINGS

Anniston Soil Pipe Co Inc Box 191 Anniston Ala
Brady Conveyors Corp 20 W Jackson Chicago 4 Ill
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill

Combustion Engineering Inc 200 Madison Av New York 16 NY
CRANE CO 836 S MICHIGAN AV CHICAGO ILL
Eastern Foundry Co Boyertown Pa
Industrial Iron Wks Box 4625 6011 S W Macadam Portland 1 Ore
Medina Iron & Brass Co Medina NY
Western Foundry Co 2400 SW Water Av Portland 1 Ore
WOODWARD IRON CO WOODWARD ALA
Zurn (J A) Mfg Co Erie Pa

PIPE, CLAY, SEWER

Acme Brick Co Box 425 Ft Worth Tex
American Vitrified Prods Co 701 Nat'l Bond Bldg Cleveland 14 Ohio
Bowerston Shale Co Bowerston Ohio
California Pottery Co Niles Cal
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
Carey Brick Co 6558 W Fullerton Chicago Ill
Chehalis Brick & Tile Co Chehalis Wash
Clark (N) & Sons Div Pacific Clay Prods Alameda Cal
Clay City Pipe Co Uhrichsville Ohio
Columbia Pipe Co Columbia SC
Dee Clay Prods Co Bloomingdale Ind
Dennison Sewer Pipe Corp 3334 Prospect Av Cleveland 15 Ohio
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Evans Brick Co Uhrichsville Ohio
Evans Pipe Co Uhrichsville Ohio
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gladding-McBean & Co 2901 Los Feliz Blvd Los Angeles Cal
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Iowa Pipe & Tile Co Des Moines Iowa
Junction City Clay Co 3334 Prospect Av Cleveland 15 Ohio
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
LACLEDE CHRISTY CO 2801 HEREFORD ST LOUIS 9 MO
Lehigh Sewer Pipe & Tile Co Box 728 Fort Dodge Iowa
Logan Clay Prods Co Logan Ohio
Lovell Clay Prods Co Lovell Wyo
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL
Oconee Clay Prods Co Box 262 Milledgeville Ga
Owensboro Sewer Pipe Co Owensboro Ky
Pacific Clay Prods 306 W Avenue 26 Los Angeles 31 Cal
Patton Clay Mfg Co Foot of Terra Cotta Av Patton Pa
Pomona Terra-Cotta Co Pomona NC
Red Wing Sewer Pipe Corp Box 115 Red Wing Minn
Robinson Clay Prods Co Second Nat'l Bank Bldg Akron 9 Ohio
St Mary's Clay Prods Co St Mary's Pa
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio
Streator Drain Tile Co Streator Ill
Superior Clay Corp Uhrichsville Ohio
Texas Vitrified Pipe Co Box 111 Mineral Wells Tex
Union Clay Mfg Corp Binghamton NY
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio
Washington Brick & Lime Co Spokane Wash
What Cheer Clay Prods Co What Cheer Iowa
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

PIPE, CONDUCTOR, EAVES TROUGH

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Badger Corrugating Co 1801-35 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
Hussey (C G) & Co 2950 Second Av Pittsburgh 19 Pa
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Lyon, Conklin & Co Inc Race & McComas Baltimore 30 Md
Martin Metal Mfg Co Wichita Kan
METALBESTOS DIV WILLIAMS-WALLACE CO BELMONT CAL
New Orleans Roofing & Metal Co New Orleans La
Newport Steel Corp 9th & Lowell Newport Ky
Northwest Metal Prods Inc 55 Spokane Seattle Wash
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
REYNOLDS METALS CO BLDG PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Tiffin Art Metal Co Tiffin 16 Ohio
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va
York Corrugating Co Adams St & PRR York Pa

PIPE, CULVERT, IRON & STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Armco Steel Corp 703 Curtis Middletown Ohio
Beall Pipe & Tank Corp Portland Ore
Eaton Metal Prods Corp 1301 Willis Av Omaha 2 Neb
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
Newport Steel Corp 9th & Lowell Newport Ky
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
UNITED STATES STEEL FABRICATORS INC WOOSTER OHIO
Wheeling Corrugating Co Wheeling W Va

PIPE, FIBER CONDUIT

Fibre Conduit Co Orangeburg NY
SONOCO PRODS CO SOUTH ST HARTSVILLE SC

PIPE JOINT SEALING COMPOUNDS

Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Arco Co 7301 Bessemer Cleveland 4 Ohio
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Tex Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Atlas Mineral Prods Co Mertztown Pa
Blue Ridge Talc Co Inc Henry Va
Boyer Chemical Laboratory Co Inc 2232 Wabash Av Chicago 16 Ill
CALBAR PAINT & VARNISH CO 3612 N MARTHA PHILADELPHIA 25 PA
CAREY (PHILIP) MFG CO CINCINNATI 15 OHIO
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Dixon (Joseph) Crucible Co 167 Wayne Jersey City NJ
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK NY
Gillespie Varnish Co Dey & Howell Jersey City NJ
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
Koppers Co Inc Tar Prods Div Pittsburgh 19 Pa
Lake Chemical Co 3052 W Carroll Chicago 12 Ill
Liebich (G L) Co 931 N Ogden Chicago 22 Ill
Meadows (W R) Inc 2-18 Kimball Elgin Ill
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Quigley Co Inc 527 Fifth Av New York 17 NY
Reilly Tar & Chemical Corp Indianapolis Ind
Republic Creosoting Co 1615 Merchant Bank Bldg Indianapolis 4 Ind
Robinson Clay Prod Co Second National Bank Bldg Akron 9 Ohio
Sauereisen Cements Co 1045 N Canal Pittsburgh 15 Pa
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
Smooth-On Mfg Co 568-574 Communipaw Av Jersey City 4 NJ
Sullivan Co 212 E Trigg Memphis 2 Tenn
X-Pando Corp 43-15 36th Long Island City 1 NY

PIPE, SEWER, BITUMINIZED FIBER

BROWN CO 150 CAUSEWAY BOSTON 14 MASS
ORANGEBURG MFG CO INC 48 THOMAS ORANGEBURG NY

PIPE, SEWER, CONCRETE

American Vitrified Prods Co Cleveland 14 Ohio
Graystone Concrete Prods Co 134 Nickerson Seattle 9 Wash
Price Bros Co 1932 E Monument Dayton 1 Ohio
Universal Concrete Pipe Co Inc 297 S High Columbus 15 Ohio

PIPE, STEEL

Allegheny Ludlum Steel Corp Pittsburgh 22 Pa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Beall Pipe & Tank Corp Portland Ore
Bethlehem Steel Co 701 E Third Bethlehem Pa
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div U S Steel Corp Russ Bldg San Francisco 6 Cal
Dempster Mill Mfg Co Beatrice Neb
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
Laclede Steel Co Arcade Bldg St Louis Mo
National Tube Div U S Steel Corp 525 William Penn Pl Pittsburgh Pa
Newport Steel Corp 9th & Lowell Newport Ky
Republic Steel Corp Republic Bldg Cleveland Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Wheeling Steel Corp Wheeling W Va
Youngstown Steel Prods Youngstown Ohio

PIPE, STEEL GALVANIZED

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armco Steel Corp 703 Curtis Middletown Ohio
Bambrick (Richard J) 125 Broad New York 4 NY
Bethlehem Steel Co 701 E Third Bethlehem Pa
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Columbia-Geneva Steel Div U S Steel Corp Russ Bldg San Francisco 6 Cal
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
National Tube Div U S Steel Corp 525 William Penn Pl Pittsburgh Pa
Republic Steel Corp Republic Bldg Cleveland 4 Ohio
UNITED STEEL FABRICATORS INC WOOSTER OHIO
Wheeling Steel Corp Wheeling W Va
Youngstown Sheet & Tube Co Youngstown 1 Ohio

PIPE, WOOD

Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
Baltimore Cooperage Tank & Tower Co Baltimore Md
Caldwell (W E) Co 2320 Brook Louisville 8 Ky
Caspar Lumber Co Hobart Bldg San Francisco Cal
Johnson & Carlson 847 W Eastman Chicago 22 Ill
M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 17 Ore
Pacific Wood Tank Corp 461 Market San Francisco 5 Cal
Redwood Mfrs Co Hobart Bldg San Francisco Cal
Willamette Valley Lumber Co Dallas Ore
Wyckoff (A) & Son Co Elmira NY

PIPE, WROUGHT IRON

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Byers (A M) Co Clark Bldg Pittsburgh Pa
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Crane Co 836 S Michigan Av Chicago Ill
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
South Chester Tube Co Chester Pa

PIPE & TUBING, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
REYNOLDS METALS CO BLDG PRODS DIV 2001 S 9TH LOUISVILLE 1 KY

PIPE & TUBING, BRASS & COPPER

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
American Sanitary Mfg Co Abingdon Ill
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn

CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
REVERE COPPER & BRASS INC 230 PARK AV NEW YORK 17 NY
Scovill Mfg Co 100 Mill Waterbury Conn
Wolverine Tube Div Calumet & Hecla Inc 1465 Central Av Detroit 9 Mich

PIPE & TUBING, PLASTIC

American Extruded Prods Co Hollywood 38 Cal
Amerline Inc 1753 N Honore Chicago 22 Ill
Atlas Mineral Prods Co Mertztown Pa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
Carlon Prods Corp 10225 Meech Av Cleveland 5 Ohio
Detroit Macoid Corp 12340 Cloverdale Av Detroit Mich
Eastman Chemical Prods Inc Kingsport Tenn
Extruded Plastics Inc Norwalk Conn
Goodrich (B F) Co 500 S Main Akron Ohio
Johnson Plastics Corp Box 212 Chagrin Falls Ohio
MONSANTO CHEMICAL CO 600 MONSANTO AV SPRINGFIELD MASS
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Superior Plastics Inc 410-430 N Oakley Blvd Chicago 12 Ill
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Visking Corp Merchandise Mart Plaza Chicago 38 Ill

PLANERS

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 2 MO
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
DeWalt Inc Fountain Av Lancaster Pa
Enterprise Co South Main Columbiana Ohio
Greenlee Bros & Co 2136 12th Rockford Ill
Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio
Porter (C O) Machinery Co 666-68 Front Av NW Grand Rapids 4 Mich
Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH PA
Sibley (Edward L) Mfg Co Inc 222 W Main Bennington Vt
Stetson-Ross Machine Co 3200-1st Av S Seattle 4 Wash
Toolkraft Corp Plainfield Springfield 1 Mass
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Whitney (Baxter D) & Son Inc Winchendon Mass
Yates-American Machine Co Beloit Wis

PLANES

MALL TOOL CO 7740 SOUTH CHICAGO AV CHICAGO 19 ILL
Metal Prods Corp 510 First Av West Haven Conn
Millers Falls Co Greenfield Mass
Peck Stow & Wilcox Co Southington Conn
Porter-Cable Machine Co 1721 N Salina Syracuse 8 NY
SARGENT & CO 45 WATER ST NEW HAVEN CONN
STANLEY WKS 111 ELM NEW BRITAIN CONN

PLANKS, ASPHALT

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Protective Papers Inc Union Ill
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

PLANKS, EXTENSION

American Ladder Co 5509 NW 7th Av Miami 38 Fla
Babcock (W W) Co Inc Delaware Av Bath NY
Bauer Mfg Co Palmer St Wooster Ohio
Berg (John) Mfg Co 5319 S LaSalle Chicago Ill
Breyer Bros Whiting & Co Waupun Wis
Clark (J R) Co Spring Park Minn
Flint (A W) Co 85 Lloyd New Haven 6 Conn
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Goshen Mfg Co 10th & Reynolds Goshen Ind
Holland Ladder & Mfg Co 13053 W 17th Holland Mich
Howard Mfg Co of Cal 2428 E 56th Los Angeles 58 Cal
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Tilley (John S) Ladders Co 112 Second Watervliet NY
Woodenware Prods Corp 122 N Seventh St Louis 1 Mo

PLANKS, FIBER, INSULATING

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Durisol Inc 420 Lexington Av New York 17 NY
Fir-Tex Insulating Board Co US Nat'l Bank Bldg Portland Ore
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP BOX 290 22 E 40TH NEW YORK 16 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Simpson Logging Co White Bldg Seattle 1 Wash
Tectum Corp 105 S Sixth Newark Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

PLANKS, GYPSUM

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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PLAN SERVICES

All Climates Plan Book Agency 2426 N Tejon Colorado Springs Colo
American Plan Service Co 5054 Biscayne Blvd Miami Fla
Architectural Plan Service Inc 89-51 164th Jamaica 3 NY
Baird (J Malcolm) Architectural Designer Mound Minn
BETTER HOMES & GARDENS 1714 LOCUST DES MOINES 3 IA
Brown-Blodgett Inc St Paul Minn
Builders Planning Service 120 Machin Peoria 5 Ill
Continental Steel Corp Kokomo Ind
GARLINGHOUSE (L F) CO INC 820 QUINCY TOPEKA KAN
Good Housekeeping 57th at 8th Av New York 19 NY
Home Building Plan Service 2454 NE Sandy Blvd Portland 12 Ore
Homograf Co 11711 E Eight-Mile Rd East Detroit Mich
Home Plan Book Co St Paul Minn
Home Planners Inc 16310 Grand River Detroit 27 Mich
HOME OF THE WEEK PLAN SERVICE 89 ELMGROVE AV PROVIDENCE 6 RI
National Plan Service Inc 1315 W Congress Chicago Ill
Nationwide House Plan Service 17 Hewes Providence RI
PARENTS' MAGAZINE 52 VANDERBILT AV NEW YORK 17 NY
Simmons-Boardman Pub Corp 30 Church New York 7 NY
Standard Homes Co 2524 "L" NW Washington 7 DC
U-Bild Enterprises Van Nuys Cal
Universal Plan Service 332 Builders Exchange Bldg Portland 4 Ore
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

PLANS, HOUSE, IN BOOKS

Architectural Plan Service Inc 89-51 164th Jamaica 3 NY
Brown-Blodgett Inc St Paul Minn
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL
Cleveland Publications 448 S Hill Los Angeles Cal
GARLINGHOUSE (L F) CO INC 820 QUINCY TOPEKA KAN
Home Building Plan Service 2454-NE Sandy Blvd Portland 12 Ore
Home Plan Book Co St Paul 4 Minn
Home Planners Inc 16310 Grand River Detroit 27 Minn
HOME OF THE WEEK PLAN SERVICE 89 ELMGROVE AV PROVIDENCE 6 RI
Housing Plan Service Inc 140 Nassau New York 7 NY
National Plan Service Inc 1315 W Congress Chicago Ill
SIMMONS-BOARDMAN PUB CORP 30 CHURCH NEW YORK 7 NY
Standard Homes Co 2524 "L" NW Washington 7 DC
Universal Plan Service 332 Builders Exchange Bldg Portland 4 Ore
WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN

PLASTER, ACOUSTICAL

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill
Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa
Builder's Fireplace & Supply Co 2604 Link Rd Houston Tex
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Nelson (B F) Mfg Co 401 NE Main Minneapolis 13 Minn
Schundler (FE) & Co Inc 504 Railroad Joliet Ill
Silbrico Corp 5901 W 66th Chicago 38 Ill
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N La Salle Chicago 1 Ill
Texas Vermiculite Co 303 Brazos Austin Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Western Mineral Prods Co 1820 Madison NE Minneapolis Minn
ZONOLITE CO 135 S LA SALLE CHICAGO 3 ILL

PLASTER, ASBESTOS

KEASBEY & MATTISON CO BUTLER AV AMBLER PA

PLASTER, BONDING

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
LARSEN PRODS CORP 4934 ELM BETHESDA MD
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
NU-WALL MFG CO 923 N 19TH MILWAUKEE 3 WIS
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, CASTING

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA

PLASTER, CEDAR

Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Tamms Industries Inc 228 N La Salle Chicago 1 Ill

PLASTER, FIBERED

Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Fairmont Wall Plaster Co Fairmont W Va
Grand Rapids Plaster Co Grand Rapids 2 Mich
Ideal Cement Co Colorado Div 500 Denver Bldg Denver 2 Colo
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, FINISHING, COLORED

Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa
Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Grand Rapids Plaster Co Grand Rapids 2 Mich
Made-Rite Prods Inc 2410 S 7th St Louis Mo
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, FINISHING, MOULDING, GAUGING

Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Grand Rapids Plaster Co Grand Rapids Mich
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, GYPSUM

Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Grand Rapids Plaster Co Grand Rapids Mich
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, INSULATING

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill
Camp Co Inc 6958 S State Chicago 21 Ill
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL
Mikolite Sales Corp Encampment Wyo
Minneapolis Builders Supply Co 927 Second Ave South Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Schundler (F E) & Co Inc 504 Railroad Joliet Ill
Texas Vermiculite Co 303 Brazos Austin Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

PLASTER, LIME

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Grand Rapids Plaster Co Grand Rapids 2 Mich
Kelley Island Lime and Transport Co Leader Bldg Cleveland 14 Ohio
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER, PATCHING

Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio
CERTAIN-TEED PRODS CO 120 E LANCASTER ARDMORE PA
Chicago Bronze & Color Wks 2601-75 W Grand Ave Chicago 12 Ill
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Durham (Donald) Co Box 804 Des Moines 4 Iowa
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Grand Rapids Plaster Co Grand Rapids 2 Mich
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo
Made-Rite Prods Inc St Louis Mo
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn
Muralo Co Inc 566 Richmond Ter Staten Island NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Reardon Co 7501 Page Av St Louis 14 Mo
Reliable Paste & Chemical Co 3560 S Shields Chicago 9 Ill
Rutland Fire Clay Co Rutland Vt
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Stonhard Co 1306 Spring Garden Philadelphia 8 Pa
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
United Gilsonite Laboratories 1396 Jefferson Av Scranton Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wesco Waterpaints Inc Matteson Ill
X-Pando Corp 43-15 36th Long Island City 1 NY

PLASTER RETARDERS

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTERBOARD

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Badger Corrugating Co 1801-39 West Av S Lacrosse Wis
Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Grand Rapids Co Grand Rapids Mich
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTER OF PARIS

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA

Fairmont Wall Plaster Co Fairmont W Va
Grand Rapids Plaster Co Grand Rapids 2 Mich
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
Tamms Industries 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PLASTIC LAMINATES

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Allied Synthetic Co 4654 De Soto San Diego 9 Cal
ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL
Arborite Co Ltd Montreal Que Can
Barrett Div Allied Chemical & Dye Corp 2112 Sylvan Av Toledo Ohio
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
CHEMOLD CO 2000 COLORADO BLVD SANTA MONICA CAL
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
Consolidated Water Power & Paper Co Ahdawagam Div Wisconsin Rapids Wis
Consoweld Inc Wisconsin Rapids Wis
Continental Can Co Conolite Dept 16th & Locust Wilmington Del
Corrulux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex
Farley & Loetscher Mfg Co Dubuque Iowa
FORMICA CO 4515 SPRING GROVE CINCINNATI 32 OHIO
GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTIC AV PITTSFIELD MASS
Kochton Plywood & Veneer Co 509 W Roosevelt Rd Chicago 7 Ill
Lacton Glue Mfg Co 611 Broadway New York 12 NY
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
MONSANTO CHEMICAL CO PLASTICS DIV 100 MONSANTO AV SPRINGFIELD 2 MASS
NATIONAL PLASTIC PRODS CO ODENTON MD
National Plywoods Inc 2710 Throop Chicago Ill
Ohio Rubber Co Willoughby Ohio
Parisian Novelty Co 3510 S Western Av Chicago 9 Ill
Parkwood Corp 24 Water Wakefield Mass
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Pioneer Plastics Corp 28 Goodhue Salem Mass
Plymold Co 2707 Tulare Av Burbank Cal
Plytex Corp 1731 Elston Av Chicago 22 Ill
Ray-O-Lite Corp of America 696 Greenwood Ave NE Atlanta Ga
RODDIS PLYWOOD CORP MARSHFIELD WIS
ST REGIS SALES CORP PANELYTE DIV 230 PARK AV NEW YORK 17 NY
Selck (Walter E) & Co 228 W Hubbard Chicago 10 Ill
Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

PLASTIC, WATERPROOF

Asbestos Mfg Co 131 Wabash Michigan City Ind
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
BIRD & SON INC EAST WALPOLE MASS
CHEMOLD CO 2000 COLORADO BLVD SANTA MONICA CAL
Evererete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Lehon Co 4425 S Oakley Av Chicago 9 Ill
Soanehorn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Superior Plastics Inc 410-430 N Oakley Blvd Chicago 12 Ill
Technical Supply Co 1911 University Av Palo Alto Cal
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa

PLIERS

Barcalo Mfg Co 225 Louisiana Buffalo 4 NY
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Champion-De Arment Tool Co 1306-16 Main Meadville 1 Pa
Crescent Tool Co 200 Harrison Jamestown NY
Graham (John H) & Co 105 Duane New York 8 NY
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill
Kraeuter & Co Inc 581 18th Av Newark NJ
Owatonna Tool Co 341 Cedar Owatonna Minn
Ox-Wall Tool Co 928 Broadway New York 10 NY
P & C Hand Forged Tool Co Portland 22 Ore
Peck Stow & Wilcox Co Southington Conn
Penens Corp 3900 Wesley Ter Schiller Park Ill
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Vlchek Tool Co 3001 E 87th Cleveland 4 Ohio
Wilde Drop Forge & Tool Co 2942 Fairmount Av Kansas City 8 Mo

PLUMB BOBS

Brown & Sharpe Mfg Co Providence RI
Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill
General Hdwe Mfg Co Inc 80 White New York 13 NY
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Keuffel & Esser Co 300 Adams Hoboken NJ
LUFKIN RULE CO SAGINAW MICH
Millers Falls Co Greenfield Mass
SARGENT & CO 45 WATER ST NEW HAVEN 9 CONN
Starrett (L S) Co 101 Crescent Athol Mass
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA

PLYWOOD, DOUGLAS FIR

Aberdeen Plywood Corp Box 340 Aberdeen Wash
Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill
Anacortes Veneer Inc 35th & "V" Av Box 71 Anacortes Wash
ASSOCIATED PLYWOOD MILLS INC EUGENE ORE
Astoria Plywood Corp Astoria Ore
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa
Bellingham Plywood Co Bellingham Wash
Blick (T C) Plywood Co Inc 249 Park Av Hartford 8 Conn
British Columbia Forest Prods Ltd 995 W 6th Av Vancouver 9 BC Can
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Cascades Plywood Corp 1016 Public Service Bldg Portland 4 Ore
Coos Bay Lbr Co Coos Bay Ore
Crescent Plywood Co Box 325 Crescent City Cal
Cruver Door Co 308 Security Bldg Box 1102 Tacoma Wash
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Dixie Lumber Co Inc 8201 Fig Box 257 New Orleans La
Durable Plywood Co Box 114 Calpella Cal
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Evans Prod. Co 13101 Eckles Rd Plymouth Mich
Everett Plywood & Door Corp Everett Wash
Fir Mfg Co Myrtle Creek Ore
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Harbor Plywood Corp Box 940 Aberdeen Wash
Edward Hines Lumber Co Westfir Ore
Humboldt Plywood Corp Box 248 Arcata Cal
Industrial Plywood Corp 25 California San Francisco 11 Cal
Kochton Plywood & Veneer Co 509 W Roosevelt Rd Chicago 7 Ill
Lake Pleasant Plywood Co 9007 S 19th Tacoma 6 Wash
Linn Plywood Corp 10th & Hill Albany Ore
LONG-BELL LUMBER CO R A LONG BLDG 926-9 GRAND AV KANSAS CITY 6 MO
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
M & M Woodworking Co 2301 N Columbia Blvd Portland 3 Ore
Mar-Lin Timber Corp Winchester Ore
Martin Bros Box Co Oakland Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Menasha Plywood Corp Box 874 North Bend Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Mt Baker Plywood Inc 2929 Roeder Av Bellingham Wash
Multnomah Plywood Corp 1500 SW Harbor Dr Portland 1 Ore
Mutual Plywood Corp Eureka Cal
National Plywoods Inc 2710 Throop Chicago Ill
Niagara Plywoods Inc 1234 Broadway Buffalo NY
North Pacific Plywood Inc 1549 Dock Tacoma 2 Wash
Northwest Door Co Box 1477 Tacoma 1 Wash
Oregon-Washington Plywood Co 1002 U S National Bank Bldg Portland 4 Ore
Oregon Plywood Corp Sweet Home Ore
Pacific Forest Sales Corp 1103 N Riverside Medford Ore
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Pacific Veneer & Plywood Corp Box 1067 Bellingham Wash
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Peninsula Plywood Corp Port Angeles Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ
Puget Sound Plywood Inc 230 E "F" Tacoma Wash
Ranier Plywood Co 624 E 15th Tacoma Wash
RODDIS PLYWOOD CORP MARSHFIELD WIS
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA WASH
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Simpson Logging Co White Bldg Seattle 1 Wash
Southern Oregon Plywoods Inc 1100 E "J" Grants Pass Ore
Springfield Plywood Corp Springfield Ore
Timber Prods Co Box 152 Medford Ore
Triplett Lumber Co Inc Box 738 Lenoir NC
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
VANCOUVER PLYWOOD CO 72 W BROADWAY EUGENE ORE
Vancouver Plywood Co Box 720 Vancouver Wash
Veneer Prods Co Box 152 Medford Ore
Walton Plywood Co Everett Wash
Washington Veneer Corp Box 347 Olympia Wash
West Coast Plywood Co Box 1180 Aberdeen Wash
Western Door & Plywood Corp 900 SW Second Av Portland 4 Ore
Western Veneer Co 75 W Broadway Eugene Ore
WEYERHAEUSER SALES CO PLYWOOD DEPT TACOMA BLDG TACOMA 1 WASH
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

PLYWOOD, EMBOSSED

Aetna Plywood & Veneer Co 1731 Elston Chicago 22 Ill
ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE
M & M Woodworking Co 2301 N Columbia Blvd Portland 3 Ore
MIDWEST PLYWOOD CO 10101 LYNDON DETROIT 21 MICH
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
National Plywoods Inc 2710 Throop Chicago Ill
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Shadowood 15058 Delano Van Nuys Cal
Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, EXTERIOR

Aberdeen Plywood Corp Aberdeen Wash
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Anacortes Veneer Inc 35th & "V" Av Anacortes Wash
ASSOCIATED PLYWOOD MILLS INC EUGENE ORE
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Bellingham Plywood Corp Bellingham Wash
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Cascades Plywood Corp 1016 Public Service Bldg Portland 4 Ore
Coos Bay Lumber Co Coos Bay Ore
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Evans Prods Co 13101 Eckles Rd Plymouth Mich
Fir Mfg Co Myrtle Creek Ore
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Harbor Plywood Corp Box 940 Aberdeen Wash
Humboldt Plywood Corp Box 248 Arcata Cal
LONG-BELL LUMBER CO 926 GRAND KANSAS CITY 6 MO
M & M Woodworking Co 2301 N Columbia Portland 3 Ore
MacMillan & Bloedel Ltd 837 Hastings Vancouver B C Canada
Martin Bros Box Co Oakland Ore
Mauk Seattle Lbr Co 3935 University Way Seattle 5 Wash
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis

AUTO-LOK Has No Equal!

No other window packs Auto-Lok's selling punch in the homes you build...can match Auto-Lok's locking mechanism... can seal as tight...look as beautiful...offer so many obvious superiorities.

And no other window is so fast and easy to install. Auto-Lok comes to the job on schedule, completely assembled... no separate parts to lose... no costly delays ... no time-wasting adjustments... minimum labor costs.

Yes, in today's many-windowed designs, Auto-Lok's ease of installation is vital in holding down costs... Auto-Lok's proved appeal to both men and women is the "clincher" in sale after sale!

THE WINDOW WOMEN WANT MOST...

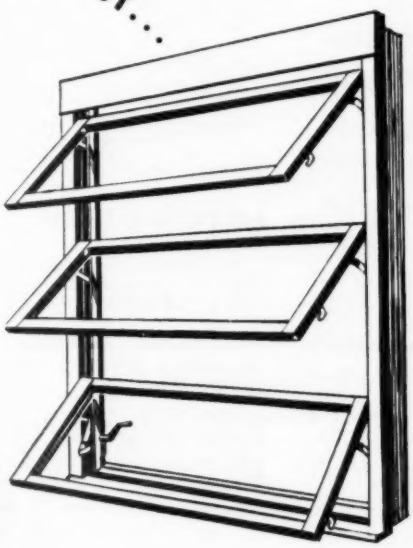
EASIEST window to open or close... finger-tip control from partial opening of *only* the lower sash Nite-Vent to the widest opening of all.

SAFEST window to leave open, anytime! Auto-Lok sash lock in any position... keep children in and prowlers out... protect interior walls and furnishings from rain.

BEAUTIFUL ... streamlined ... smooth finish... fine narrow sight lines... concealed hardware and inconspicuous operator.

TIGHTEST CLOSING window ever made. Auto-Lok seals tightest to keep out rain and cold, wind and dust, for more comfort and less work.

EASIEST TO CLEAN. Nothing to lift... no sash to remove ... no gadgets to disengage. Quickly clean both sides from the inside—top vent, too! No exposed mechanism to collect dust.



FREEDOM from window work. Auto-Lok screens and storm sash—interchangeable from the inside—fit in fast, come out easy.

NO BOTHER with repair bills. Auto-Lok windows cannot rust, rot or corrode—never need adjustment—have no wearing parts.

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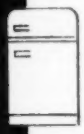
COZY WARMTH in zero weather. Auto-Lok seals shut tighter than a refrigerator. Heat stays in, cold stays out, cutting fuel costs.

...MEN LIKE BEST!

LUDMAN Auto-lok AUTOMATIC LOCKING PATENTED

ALUMINUM OR WOOD WINDOWS



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LUDMAN
CORPORATION
North Miami, Florida

JALOUSIES TOO! The same world-famous Auto-Lok engineering design and quality standards are applied to Ludman Windo-Tite Jalousies incorporating *all* the features that count most with architects, builders and homeowners.

WORLD'S LARGEST MANUFACTURERS OF AWNING WINDOWS AND JALOUSIES

Factory Sales Offices: NEW YORK • CHICAGO
WASHINGTON, D. C. • ATLANTA • ST. LOUIS
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LUDMAN CORPORATION Dept. AB-4
North Miami, Florida

Gentlemen: Please send complete information about Auto-Lok Windows.

☐ Wood ☐ Aluminum ☐ Windo-Tite Jalousies

Name _____

Address _____

City _____ State _____

National Plywoods Inc 2710 Throop Chicago Ill
Niagara Plywoods Inc 1234 Broadway Buffalo NY
North-Robbins Plywood Inc 400 N Boren Av Seattle 9 Wash
Northwest Door Co Tacoma 1 Wash
Oregon Plywood Corp Sweet Home Ore
Oregon-Washington Plywood Co Tacoma 2 Wash
Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo
Peninsula Plywood Corp Port Angeles Wash
Plytex Corp 1731 Elston Av Chicago 22 Ill
Puget Sound Plywood Inc 230 E "F" Tacoma 2 Wash
Quigley (J R) Co Gloucester City NJ
Ranier Plywood Co Tacoma Wash
RODDIS PLYWOOD CORP MARSHFIELD WIS
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA 2 WASH
Simpson Logging Co White Bldg Seattle 1 Wash
Springfield Plywood Corp Springfield Ore
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Vancouver Plywood Co Box 720 Vancouver Wash
Washington Veneer Corp Olympia Wash
West Coast Plywood Co Aberdeen Wash
WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN

PLYWOOD, FABRIC COVERED

Northwest Door Co Box 1477 Tacoma 1 Wash
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, FLAMEPROOF

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Fox Bros 2717 Sidney St Louis 4 Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Protexol Corp 162 Market Kenilworth NJ
Quigley (J R) Gloucester City NJ
US Mengel Plywood Inc Box 1612 Louisville 1 Ky

PLYWOOD, FLEXIBLE, HARDWOOD

Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
National Plywoods Inc 2710 Throop Chicago Ill
Plytex Corp 1731 Elston Ave Chicago 22 Ill
Superflex Plywood Corp 1860 Broadway New York 23 NY
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

PLYWOOD, HARDBOARD SURFACED

Aberdeen Plywood Corp Box 340 Aberdeen Wash
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Cascades Plywood Corp 1016 Public Service Bldg Portland 4 Ore
Forest Fiber Prods Corp Box 68 AB Forest Grove Ore
Industrial Plywood Corp 25 California San Francisco 11 Cal
Masonite Corp 111 W Washington Chicago 2 Ill
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Multnomah Plywood Corp 1500 S W Harbor Drive Portland 1 Ore
National Plywoods Inc 2710 Throop Chicago Ill
Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA WASH
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Western Veneer Co 72 West Broadway Eugene Ore

PLYWOOD, HARDWOOD

ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Blick (T C) Plywood Co Inc 249 Park Av Hartford 8 Conn
Curtis Cos Inc American Plywood Div New London Wis
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Dixie Lumber Inc 8201 Fig New Orleans La
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Fuller (T C) Plywood Co Laurel Miss
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
HIGGINS INC BOX 8001 NEW ORLEANS LA
Keller Prods Inc 41 Union Manchester NH
Kennebec Inc Owens St Bingham Me
M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Northwest Door Co Box 1477 Tacoma 1 Wash
Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ
Quigley (J R) Co Gloucester City NJ
RODDIS PLYWOOD CORP MARSHFIELD WIS
Schnitzer Bros 3200 NW Yeon Av Portland 10 Ore
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Superflex Plywood Corp 1860 Broadway New York 23 NY
THOMASON PLYWOOD CORP BOX 352 FAYETTEVILLE NC
Triplett Lumber Co Inc Box 738 Lenoir NC
Twin City Hardwood Lbr Co St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Underwood Veneer Co Box 510 Wausau Wis
Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich

PLYWOOD, INLAID

Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Plytex Corp 1731 Elston Av Chicago 22 Ill
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, MARINE

ASSOCIATED PLYWOOD MILLS INC EUGENE ORE
Curtis Cos Inc American Plywood Div New London Wis
Harbor Plywood Corp Box 940 Aberdeen Wash
HIGGINS INC BOX 8001 NEW ORLEANS LA
Keller Prods Inc 41 Union Manchester NH
M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ
Quigley (J R) Co Gloucester City NJ
RODDIS PLYWOOD CORP MARSHFIELD WIS
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, METAL COVERED

Keller Prods Inc 41 Union Manchester NH
Rigidized Metal Corp 687 Ohio Buffalo 3 NY
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, PINE

ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Harbor Plywood Corp Box 940 Aberdeen Wash
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Niagara Plywoods Inc 1234 Broadway Buffalo NY
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ
RODDIS PLYWOOD CORP MARSHFIELD WIS
Timber Prods Co Box 152 Medford Ore
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Veneer Prods Co Box 152 Medford Ore

PLYWOOD, PLASTIC FACED

Anacortes Veneer Inc 35th & "V" Av Anacortes Wash
ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Curtis Cos Inc American Plywood Div New London Wis
FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Harbor Plywood Corp Box 940 Aberdeen Wash
HIGGINS INC BOX 8001 NEW ORLEANS LA
Kimberly-Clark Corp 128 N Commercial Neenah Wis
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Northwest Door Co Tacoma 1 Wash
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ
RODDIS PLYWOOD CORP MARSHFIELD WIS
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA 2 WASH
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
West Coast Plywood Co Aberdeen Wash
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH PA
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

PLYWOOD, RAT REPELLENT

ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

PLYWOOD, REDWOOD

Arrow Tank Co 16 Barnett Buffalo 15 NY
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Buffelen Lumber & Mfg Co Tacoma Wash
M & M Woodworking Co 2301 N Columbia Portland 3 Ore
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
National Plywoods Inc 2710 Throop Chicago Ill
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

PLYWOOD SEALERS

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
American Varnish Co 1140 N Branch Chicago 22 Ill
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Breinig Bros 1st & Harrison Hoboken NJ
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN
Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Monsanto Chemical Co Western Div 911 Western Av Seattle 4 Wash
O'Brien Corp 101 N Johnson South Bend 21 Ind
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Plywood Inc Title Bldg 15 W Front Trenton 8 NJ

RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Standard Tech Chemicals Inc 2600 Richmond Ter Staten Island 3 NY
Tech Bros Inc 2600 Richmond Ter Staten Island 3 NY
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Vita-Var Corp 10 Commerce Ct Newark NJ
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

PLYWOOD STRIATED

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
Plytex Corp 1731 Elston Av Chicago 22 Ill
Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY

POLISHING MACHINES

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Atlas Floor Surfacing Machinery Corp 248 E 3rd New York 16 NY
Bignell Machine Co 516 7th Grand Rapids 4 Mich
Black Panther Tool Co 4051 S Iowa Milwaukee 7 Wis
Camp Co Inc 6958 S State Chicago 21 Ill
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL
Curtis Machine Corp 1300 E 2nd Jamestown NJ
Denver Floor & Safety Supply Co 3801 High Denver Colo
Finnell System Inc 500 East St Elkhart Ind
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
General Floorcraft Inc 421 Hudson New York 14 NY
Hild Floor Machine Co 740 W Washington Chicago Ill
Hilger Co St Cloud Minn
HOLT MFG CO 651 20TH OAKLAND 12 CAL
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
Landers Frary & Clark Center St New Britain Conn
Lincoln-Schlueter Floor Machinery Co 512 S Peoria Chicago Ill
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE NY
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Tennant (G H) Co 2566 N Second Minneapolis Minn
US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio

PORCH ENCLOSURE PANELS

Adams Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Allied Synthetic Co 4654 De Soto San Diego 9 Cal
ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL
ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS
Angel Novelty Co 340 Broad Fitchburg Mass
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO
Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

PORCHES & CORNICES, MATERIAL FOR

CURTIS COS INC 1200 N SECOND CLINTON IOWA
Hyde-Murphy Co Murphy Bldg Ridgway Pa
International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio
Schwerd (A F) Mfg Co 3215 McClure Av Pittsburgh Pa
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Wheeler Osgood Co Tacoma 1 Wash

POST CAPS & BASES

Adams Co Box 268 Dubuque Iowa
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Braun (J G) Co 615 S Paulina Chicago 12 Ill
Cleveland Steel Specialty Co 3771 E 91st Cleveland 5 Ohio
Cole Mfg Co Memphis 2 Tenn
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Schwerd (A F) Mfg Co 3215 McClure Av Pittsburgh 12 Pa
Sharon Steel Co Sharon Pa

POST OR POLE PULLERS

KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL

POSTS, ADJUSTABLE FLOOR LEVELING & SUPPORTING

Adjusta Post Mfg Co Akron Ohio
Akron Prods Co Seville Ohio
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park 27 Mich
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Donley Bros 13940 Miles Av Cleveland 5 Ohio
Hill (R H) & Co Fort Wayne Ind
Holm's Mfg Co 106 Main Akron 8 Ohio
Holmes Mfg Co of Ohio 1340 Lake Shore Blvd Akron 1 Ohio
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
PERMA-JACK CORP 1113 E 200TH CLEVELAND 17 OHIO
Sawhill Mfg Co Sharon Pa
Sharon Steel Co Sharon Pa
Templeton Kenly & Co Gardner Rd Broadview Ill
United Metal Prods Inc 865 S High Akron 11 Ohio
Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

POSTS, FENCE, STEEL & IRON

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Anchor Post Fence Div Anchor Post Prods Inc Baltimore Md
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
Braun (J G) Co 615 S Paulina Chicago 12 Ill
Calumet Steel Co Div Borg-Warner Corp 310 S Michigan Av Chicago Ill
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div U S Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Cyclone Fence Div American Steel & Wire Co Waukegan Ill
Dare Prods Inc 66 E Jackson Battle Creek Mich
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsville Ind
Northwestern Steel & Wire Co Sterling Ill
Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 4 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div U S Steel Corp Box 599 Fairfield Ala
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

POSTS & POLES, CREOSOTED, SALTED TREATED

American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill
Colfax Lumber & Creosoting Co Inc Box 231 Pineville La
CROSSETT LUMBER CO CROSSETT ARK
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Koppers Co Inc Koppers Bldg Pittsburgh Pa
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Miller (T R) Mill Co Brewton Ala
Moss (T J) Tie Co 317 N 4th St Louis Mo
Neils (J) Lumber Co Libby Mont
Protexol Corp 162 Market Kenilworth NJ
Southern Pine Lumber Co Diboll Tex
Southwestern Creosoting Co Box 935 Muskogee Okla

POSTS & POLES, WOOD

Arnold-Dain Corp Box E Mahopac NY
CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS
CROSSETT LUMBER CO CROSSETT ARK
Fordyce-Crossett Lumber Co Fordyce Ark
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Idaho Pole Co Sandpoint Idaho
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MacFarland (L D) Co Ltd Sandpoint Idaho
MacGillis & Gibbs Co 1615 E Royal Pl Milwaukee 2 Wis
Miller (T R) Mill Co Brewton Ala
Morton Mfg Co Box 3067 Memphis 9 Tenn
National Pole & Treating Div Minnesota & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha Neb
Republic Creosoting Co 1615 Merchant Bank Bldg Indianapolis 4 Ind
Sawhill Mfg Co Sharon Pa
Standard Mfg Co 220 E 4th Cedar Falls Iowa
Standard Prods Co 1429 Northwestern Bank Bldg Minneapolis 2 Minn
Taylor-Colquitt Co 217 E Main Spartanburg SC
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill
Williamette Valley Lumber Co Dallas Ore
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

POTS, GLUE

Black Bros Co Inc Mendota Ill
BLACK & DECKER MFG CO TOWSON 4 MD
Francis (Chas E) Co 1385 Etna Av Huntington Ind
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
Nicholson & Co 161 First Cambridge 42 Mass
Sta-Warm Electric Co 553 N Chestnut Ravenna Ohio
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Vulcan Electric Co 88 Holten Danvers Mass

POWER PLANTS

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
Buda Co 15425 Commercial Av Harvey Ill
C & H Electric Co 436 W Juneau Av Milwaukee 3 Wis
Filer & Stowell Co 147 Becher Milwaukee 7 Wis
Griffin Wellpoint Corp 881 E 141st New York NY
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
International Harvester Co 180 N Michigan Av Chicago 1 Ill
KOHLER CO KOHLER WIS
Leitelt Iron Wks Grand Rapids 2 Mich
Nordberg Mfg Co 3073 S Chase Av Milwaukee 1 Wis
ONAN (D W) & SONS INC 2515 UNIVERSITY AV SE MINNEAPOLIS 14 MINN
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill
Ready-Power Co 3820 Grand River Av Detroit Mich
Rockaway Sales Co Route 6 Rockaway 22 NJ
Sterling Foundry Co Inc Sterling Ill
Swartwout Co 18511 Euclid Av Cleveland 12 Ohio
United States Motor Corp 420 Nebraska Oshkosh Wis
Waukesha Motor Co Waukesha Wis
Worthington Corp S Second Plainfield NJ

PREFABRICATED BUILDINGS, FARM

Brooks-Skinner Co 662 Adams Quincy Mass
Butler Mfg Co 7400 E 13th Kansas City 26 Mo
Close-To-Nature Co Colfax Iowa
Crawford Corp 1901 N 3rd Baton Rouge 1 La
Economy Housing Co 6th & Chestnut Wahoo Neb
FORD (IVON R) INC MCDONOUGH NY
GBH-WAY HOMES INC WALNUT ILL
Green Lumber Co Laurel Miss
Hargrove Co 4th at New York Des Moines Iowa
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
Houston Ready-Cut House Co 3601 Polk Av Houston 1 Tex
International Steel Co 1321 Edgar Evansville 7 Ind
Johnson Co 235 S Dock Sharon Pa
Kozy Mfg Co Exira Iowa
MacQueen Service 312 Savings & Trust Bldg Butler Pa
Pre Fab Industries South Bend Ind
Prefabricated Prods Co Inc Dexter Horton Bldg Seattle 4 Wash

RICHMOND HOMES INC NORTHWEST "L" & SHERIDAN RICHMOND IND
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
Super-Structures Inc 1015 S Jefferson Albert Lea Minn
Texas Housing Co Inc 9001 Denton Dr Dallas 9 Texas
Timber Structures Inc Portland 8 Ore
TRUSCON STEEL DIV 1050 ALBERT YOUNGSTOWN 1 OHIO
Unit Structures Inc Peshtigo Wis
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

PREFABRICATED CLOSETS

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Milo Prods Co Grantham Penn
Roach & Musser Co Muscatine Iowa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PREFABRICATED GARAGES

Adirondack Log Cabin Co Inc 222 E 46th New York 17 NY
Bay-Well Inc 2301 Willow Green Bay Wis
Bennett Lumber Corp Oliver & NYCRR North Tonawanda NY
Brooks-Skinner Co 662 Adams Quincy Mass
Bush Prefabricated Structures Inc Huntington Sta Long Island NY
Crawford Corp 1901 N 3rd Baton Rouge 1 La
Davis-Watson Mfg Co Nashua NH
FORD (IVON R) INC MCDONOUGH NY
GBH-WAY HOMES INC WALNUT ILL
Green Lumber Co Laurel Miss
Johnson Co 235 S Dock Sharon Pa
Kozy Mfg Co Exira Iowa
Markee Corp of America 4030 NW 29th Miami Fla
Maryland Modern Housing Corp Box 7345 Halethorpe Baltimore 27 Md
Pre-Fab Industries 1601 Main South Bend 23 Ind
Prefabricators Inc Annapolis Jct Howard County Md
Reliance Steel Prods Co McKeesport Pa
Sectional Garage Wks 2342 Bailey Buffalo 11 NY
Southern Mill & Mfg Co Box 1087 Tulsa 1 Okla
STEELCRAFT MFG CO 9701 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Super-Structures Inc 1015 S Jefferson Albert Lea Minn
Texas Housing Co Inc 9003 Denton Dr Dallas 9 Texas

PREFABRICATED HOUSES

Adirondack Log Cabin Co Inc Bound Brook NJ
Admiral Homes Inc 149 Water West Newton Pa
Aladdin Co 212 Davidson Bldg Bay City Mich
American Bildrok Co 2001 W Pershing Chicago Ill
AMERICAN HOUSES INC 165 W 46TH NEW YORK 36 NY
Bennett Lumber Corp North Tonawanda NY
BEST (W G) FACTORY-BUILT HOMES INC EFFINGHAM ILL
Bralei Homes Inc Box 232 North Little Rock Ark
Brooks-Skinner Co 662 Adams Quincy Mass
Burke Millwork Co Fremont Bridge Seattle 3 Wash
Bush Prefabricated Structures Inc Huntington Station Long Island NY
California Prefab Corp 5278 Valley Bldg Los Angeles 32 Cal
Charlotte Lumber & Mfg Co Charlotte 3 NC
City Lumber Co Inc Bridgeport Conn
COLPAERT HOMES INC SOUTH BEND IND
Continental Homes Jacksman & State Line Rd Toledo Ohio
Crawford Corp 1901 N Third Baton Rouge La
Currier Lumber Co Detroit 5 Mich
Dade Bros Inc Mineola NY
Drycemble Houses Inc Baltimore 1 Md
Economy Housing Co Wahoo Neb
FORD (IVON R) INC MCDONOUGH NY
Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo
GBH-WAY HOMES INC WALNUT ILL
General Industries Inc Fort Wayne 5 Ind
General Panel Corp 1101 W Victory Blvd Burbank Cal
Green Lumber Co Laurel Miss
HARNISCHFEGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS
Hodgson (E F) Co Inc Dover Mass
HOMASOTE CO FERNWOOD RD TRENTON 3 NJ
Hoosier Homes Inc 3362 N Capitol Indianapolis Ind
Housemart 18320 Lanken Cleveland 19 Ohio
Houston Ready-Cut House Co 3601 Polk Av Houston Texas
Illinois Lumber Mfg Co Cairo Ill
Indiana Demountable Housing Inc 907 E Michigan Indianapolis 6 Ind
Inland Homes Corp 501 S College Piqua Ohio
Intermountain Houses Logan Utah
INTERNATIONAL HOMES INC MINERAL RIDGE OHIO
Jelks Century Homes Inc 610 N 31st Lawton Okla
Johnson Co Sharon Pa
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
Johnson Quality Homes Inc Pemberton NJ
K & M Corp Norfolk 8 Va
Knox Corp Thomson Ga
Kozy Mfg Co Exira Iowa
Lewis Mfg Co Lafayette & Michigan Bay City Mich
Lumber Fabricators Inc Fort Payne Ala
Manufactured Homes 330 Kalamazoo Av Marshall Mich
Maryland Modern Housing Corp Box 7345 Halethorpe Baltimore 27 Md
Midwest Houses Box 334 Mansfield Ohio
Midwest Housing Corp 625 E Eastern Av Janesville Wis
MODERN HOMES CORP 7312 GREENFIELD DEARBORN MICH
NATIONAL HOMES CORP LAFAYETTE IND
National Ideal Co 914 Summit Toledo 4 Ohio
New Century Homes Inc Lafayette Ind
Norge Cottages 21 West New York 6 NY
Page & Hill Homes Shakopee Minn
Pease Woodwork Co Pease Homes Div 924 Forest Av Hamilton Ohio
PLACE HOMES INC 1212 S WALNUT SOUTH BEND IND
Plainfield Lumber & Supply Co Plainfield NJ
Plywood Structures 2852 E 11 Los Angeles 23 Cal
Precision Homes Co Stockton Cal
Pre-Fab Industries South Bend Ind
Prefabricators Inc Annapolis Junction Howard County Md
RICHMOND HOMES INC NORTHWEST "L" & SHERIDAN RICHMOND IND
Riedel (L H) Lumber Co Marlette Mich
SCHOLZ CONSTRUCTION CO 3662 KENWOOD AV TOLEDO OHIO
Scott Homes Inc Elm Grove (Wheeling) W Va
Scott Lumber Co Wheeling W Va
Shelter Industries Inc 630 Fifth Av New York 20 NY
Southern Mill & Mfg Co Tulsa Okla
Southwest American Houses Houston 1 Tex
Southwestern Sash & Door Co Phoenix Ariz
Stanway Prefabricated Building Co Montclair NJ
Stout Homes 701 Stephenson Bldg Detroit 2 Mich
Super-Structures Inc 1015 S Jefferson Albert Lea Minn
Texas Housing Co 9001 Denton Dr Dallas 9 Texas
THYER MFG CORP 2857 WAYNE TOLEDO OHIO
UNITED STATES STEEL HOMES INC CHARLESTOWN RD NEW ALBANY IND
UNITED STEEL FABRICATORS INC 333 GASCHE WOOSTER OHIO
Unit Structures Inc Peshtigo Wis
Universal Fabricating & Mfg Co Enid Okla
Virginia Lee Homes Inc Dexter Horton Bldg Seattle Wash
Well Built Mfg Co Route 22 Somerville NJ
West Coast Mills 555 State Chehalis Wash
WEYERHAEUSER SALES CO ST PAUL 1 MINN
Williams (Cy) Fabricators Box 256 Huntington Station NY

PREFABRICATED LOG CABIN PANELS

Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Fence Co of America Auburndale Fla
Prefabricators Inc Annapolis Junction Howard County Md
Rustic Furniture Co Inc Williamstown NJ

PREFABRICATED WALL PANELS

Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Keller Prods Inc 41 Union Manchester NH
Mahon (R C) Co Box 4666 Detroit 34 Mich
Plymold Co 2707 Tulare Av Burbank Cal
Texas Housing Co 9001 Denton Dr Dallas 9 Tex
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PRESERVATIVES, CANVAS

American Tent & Awning Co 1132 Mission San Francisco 3 Cal
Astrup Co 2937 W 25th Cleveland 13 Ohio
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN
Dow Chemical Co 1000 Main Midland Mich
Ensign Prods Co 3528 E 76th Cleveland 5 Ohio
Fanner Mfg Co Brookside Park Cleveland 9 Ohio
Fulton Bag & Cotton Mills 170 Boulevard Elsas SE Atlanta 1 Ga
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Kuhls (H B Fred) 6413 Third Av Brooklyn NY
Lowe Bros Co 436 E Third Dayton 2 Ohio
Materials & Treatment Co Inc 2326 N 3rd Milwaukee 12 Wis
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
Mobile Paint Mfg Co Box 1686 Mobile Ala
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
Osmose Wood Preserving Co of America Inc 980 Ellicott Buffalo 9 NY
Perma Prods Co 5455 Broadway Cleveland 27 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
PROTECTION PRODS MFG CO 2305 SUPERIOR AV KALAMAZOO 99 MICH
Puritan Sales Co Atlanta Ga
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Standard Coated Prods Inc 67 W 44th New York 36 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Sullivan Co Box 2606 Memphis 2 Tenn
Unexcelled Chemical Corp 350 Fifth Av New York 1 NY
Vita-Var Corp 10 Commerce Ct Newark NJ
WEATHER-SEAL CO 10 E PEARL CINCINNATI 2 OHIO
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

PRESERVATIVES, FIBER BOARD

Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Dow Chemical Co Midland Mich
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO MICH
Wood Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

PRESERVATIVES, MASONRY

American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa

PRESERVATIVES, WOOD

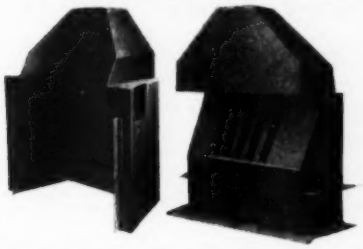
Abesto Mfg Corp 131 Wabash Michigan City Ind
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill
Barr (W M) & Co Box 3518 Memphis 6 Tenn
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Breinig Bros 1st & Harrison Hoboken NJ
BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee Wis
C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Chemical Research Prods Co Inc 235 W Olney Rd Norfolk Va
Coopers Creek Chemical Corp West Conshohocken Pa
Cre-O-Tox Chemical Co Memphis 12 Tenn
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN
Dow Chemical Co 1000 Main Midland Mich
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo
General Paint Corp 2627 Army San Francisco 19 Cal
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Gordon Chemical Co Inc 1100 Hickory Kansas City Mo
Hill Termite Control Systems 1200 Commerce Title Bldg Memphis Tenn
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
King (E & F) & Co Inc 640 Pleasant Norwood Mass
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Lowe Bros Co 436 E 3rd Dayton 2 Ohio
Materials & Treatment Co Inc 2326 N 3rd Milwaukee 12 Wis
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
MONSANTO CHEMICAL CO 1700 S 2ND ST LOUIS 4 MO
MORTELL (J W) CO 550 N HOBBIE KANKAKEE ILL
Nelsonite Chemical Prods Inc 900 Monroe Av NW Grand Rapids 2 Mich
Olympic Stained Prods Co 1118 Leary Way Seattle Wash
Osmose Wood Preserving Co of America Inc 980 Ellicott Buffalo 9 NY

Majestic

Modern Home Conveniences . . . Metal Building Products

For Indoor and Outdoor FIREPLACES

CIRCULATOR FIREPLACES



Here's smokefree, furnace-like heating efficiency for fireplaces of any type, size, or exterior treatment. Majestic's all-metal units feature warm-air outlets and cold-air intakes that circulate warm air to entire room (heat can even be piped to other rooms). Complete single unit assures correct construction, cuts installation time, reduces labor costs. Includes firebox, smoke dome, downdraft shelf, and damper with *patented* easy-action poker control. Bead at top and angle irons at sides seal in insulation. For old and new fireplaces. Widths 28 to 52 inches.

HEAT-BOOSTING "RADIANT BLADES" Majestic feature increases heat-radiating surface 45 per cent over conventional units. These metal fins (see cut-away view) also direct cool air over hottest firebox area to produce more usable room heat. Blades are permanently welded to back of firebox, in the heating chamber, and never need adjustment.

FIREPLACE DAMPERS

Majestic Dampers prevent fireplace smoking, close almost air-tight, control draft most efficiently. Built-on flange simplifies installation, saves materials. Easy action of *patented* poker control is never impaired by smoke, soot, heat or rust. Rugged, breakproof formed steel construction (or cast iron). Sizes for every need.

OUTDOOR FIREPLACE UNITS

ALL-METAL UNITS. These low-cost, complete assemblies assure correct proportions and construction of outdoor fireplaces of any design and masonry. Five sizes, including large, heavy-duty type for parks. All are ruggedly durable and popular priced. Typical unit above at left has two-section top, half solid with 6¼" stove lid, and half grill-grate with bars tapered and notched for maximum direct heat. Special model for patios or ranch-type kitchens and recreation rooms, shown above at right, is extremely popular. Grates are adjustable for wood or charcoal. Majestic also offers a variety of fireplace parts and accessories.

For Every DISPOSAL Need

UNDERGROUND RECEIVERS

Neat, sanitary way to get rid of garbage—or cans and bottles—between collections. No freezing or fermenting. Keep dogs and flies *out*. Extra heavy formed steel bodies protect against breakage or rust-out. Non-binding top and foot-operated lid have non-rust pins. (Hinged foot lever folds out of way.) Body coated inside and out with rust-resistant paint. Heavily galvanized inner can has double-locked seams. 10, 15, 20 and 25-gallon sizes.

INDOOR INCINERATORS

There's a perfect answer to every disposal need in Majestic's gas-fired, automatic gas-fired, and fuelless home incinerators. White-enameled cabinet-type model at right matches modern kitchen-laundry appliances in beauty. Utility model at left offers high efficiency at extremely low cost. All are easily operated — daily waste accumulation is simply dropped in until unit is full; then ignited. Both wet and dry garbage and trash-burner waste are reduced to powder-fine ash. Unique downdraft design and Jet-Air Action dry contents before and during combustion. Compact, space-saving designs. Heavy sheet-steel and cast-iron construction.

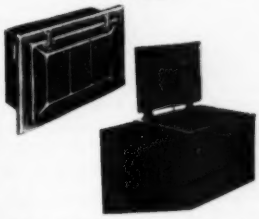
NEW OUTDOOR INCINERATOR

The Majestic Outdoor Incinerator safely destroys waste in any kind of weather. Consumes all burnable household trash, sticks, leaves and yard rubbish. Just light it and leave it. No danger of flying sparks or debris. Sturdy cast lid, which swings open for easy loading, is fitted with combination flue, spark-arrestor and weather shield. Sliding damper door provides handy draft control and easy access to the large ashpit. Aluminized steel casing and cast-iron top assure years of service. Base is completely enclosed for tidy use anywhere. Inner basket of heavy-gauge welded steel rods withstands high temperatures and flames, lifts out easily for removal of non-burnables. Round base, plus convenient size and weight make the burner easy to move if desired.

Majestic Products . . . Nationally Known and Advertised For More Than 45 Years!

And For Many Other BUILDING NEEDS

COAL or SERVICE CHUTES



Majestic Chutes provide easy delivery of coal or other materials to basements, protect foundations during deliveries. These easy-to-install metal units anchor firmly in old or new structures. Popular sizes at low cost. Typical Model No. 550 (above left) is of sturdy, formed steel construction with rust-resisting finish. Heavy-duty door has reinforcing ridges. Strong hinges (which latch door open) welded to frame and door. Equipped with burglarproof automatic lock.

GRADE LINE CHUTES (above right) opens flush with ground or pavement. Flanged door closes watertight. Rugged and durable.

Also Majestic

Ash Dumps • Ashpit Doors • Basket Grates • Bell Traps • Flue Thimbles • Foundation Grates • Sewer-Tile Strainers • Stanchion Plates • Ventilating Brick • Window Wells.

WRITE FOR CATALOG

The *Majestic* Co. Inc.

300 ERIE STREET
HUNTINGTON, INDIANA

PABCO PRODS INC 475 BRANNAN AV SAN FRANCISCO 19 CAL
Panther Oil & Grease Mfg Co Box 711 Ft Worth Tex
Parker (Ira) & Sons Oshkosh Wis
Perma Prods Co 5455 Broadway Cleveland 27 Ohio
Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plytex Corp 1731 Elston Av Chicago 22 Ill
Pratt & Lambert 75 Tonawanda Buffalo 7 NY
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Protexol Corp 162 Market Kenilworth 2 NJ
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Republic Creosoting Co 1615 Merchant Bank Bldg Indianapolis 4 Ind
Rockford Paint Mfg Co N Madison at Market Rockford Ill
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Speco Inc 3142 Superior Av Cleveland 9 Ohio
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sullivan Co 212 E Trigg Memphis 2 Tenn
Termitol Co 3567 Bigelow Blvd Pittsburgh Pa
Tesco Chemicals Inc Atlanta Ga
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
Vaccinol Sales Co 2487 Penn Av Memphis 9 Tenn
Vita-Var Corp 10 Commerce Ct Newark NJ
Wesco Waterpaints 5th & Grayson Berkeley 10 Cal
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass
Wood Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

PREVENTIVES, SAP STAIN

Breinig Bros 1st & Harrison Hoboken NJ
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Cre-O-Tox Chemical Co Memphis 12 Tenn
Dow Chemical Co 1000 Main Midland Mich
DuPont (E I) de Nemours Co Inc 1007 Market Wilmington 98 Del
Forman-Ford Co 111 S 2nd Minneapolis 1 Minn
MONSANTO CHEMICAL CO 1700 S 2ND ST LOUIS 4 MO
Protexol Corp 162 Market Kenilworth NJ
Wood Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo
Wyandotte Chemical Corp Biddle Av Wyandotte Mich

PUBLICATIONS, CONSUMER SHELTER

American Home Magazine Corp 444 Madison Av New York 22 NY
Architectural Plan Service Inc 89-51 164th Jamaica 3 NY
BETTER HOMES & GARDENS 1714 LOCUST DES MOINES 3 IOWA
Country Gentleman Independence Sq Philadelphia 5 Pa
Farm Journal 230 W Washington Sq Philadelphia 5 Pa
Good Housekeeping Forum 57th at 8th Av New York 19 NY
HOUSE BEAUTIFUL 572 MADISON AV NEW YORK 22 NY
House & Garden 420 Lexington New York 17 NY
Living for Young Homemakers 575 Madison Av New York 22 NY
PARENTS' MAGAZINE 52 VANDERBILT AV NEW YORK 17 NY
SATURDAY EVENING POST INDEPENDENCE SQ PHILADELPHIA 5 PA
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

PUMPS, BOOSTER

Aurora Pump Co 789 Dearborn Aurora Ill
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
Deming Co 42 Broadway Salem Ohio
DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY
Gardner-Denver Co 100 Williamson Quincy Ill
Goulds Pumps Inc 75 Fall Seneca Falls NY
Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
McDonald Mfg Co 1200 Pine Dubuque Iowa
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Taco Heaters Inc 137 South St Providence RI
THRUSH (H A) CO PERU IND
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind

PUMPS, CENTRIFUGAL

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
Aurora Pump Co 789 Dearborn Aurora Ill
Brown & Sharpe Mfg Co 235 Promenade Providence RI
C H & E Mfg Co 3849 N Palmer Milwaukee 21 Wis
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
Deming Co Salem Ohio
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL
Economy Pumps Inc Div Hamilton Thomas Corp Waller & Zimmerman Av Hamilton Ohio
FLINT & WALLING MFG CO INC KENDALLVILLE IND
Gardner-Denver Co 100 Williamson Quincy Ill
Goulds Pumps Inc 75 Fall Seneca Falls NY
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
Ingersoll-Rand Inc 11 Broadway New York 4 NY
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa
Marlow Pumps Box 566 Ridgewood NJ
McDonald (A Y) Mfg Co Dubuque Iowa
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
National Lead Co 111 Broadway New York 6 NY
Nordberg Mfg Co 3073 S Chase Av Milwaukee 1 Wis
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa
Trane Co 3rd & Cameron LaCrosse Wis
Wayne Home Equipment Co 1801 Glasgow Ft Wayne Ind
Worthington Corp S Second Plainfield NJ

PUMPS, CONTRACTORS'

Barnes Mfg Co 651 N Main Mansfield Ohio
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Essick Mfg Co 1950 Santa Fe Av Los Angeles 21 Cal
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO
Kenco Inc 1125 N Ridge Rd Lorain Ohio
Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa
Marlow Pumps Box 566 Ridgewood NJ
McDonald Mfg Co 1200 Pine Dubuque Iowa
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Rice Pump & Machine Co 400 Park Av Belgium Wis
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
Worthington Corp S Second Plainfield NJ

PUMPS, HEAT

Acme Industries Inc 600 N Mechanic Jackson Mich
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
General Engineering & Mfg Co 4417 Oleatha Av St Louis Mo
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
Roth (Roy E) Co 2484 Fourth Av Rock Island Ill

PUMPS, JET

Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio
Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY STS ROCHESTER NY
Deming Co 42 Broadway Salem Ohio
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Everite Pump & Mfg Co Inc 617 N Prince Lancaster Pa
FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND
Goulds Pumps Inc 75 Fall Seneca Falls NY
Ingersoll-Rand Inc 11 Broadway New York 4 NY
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa
McDonald (A Y) Mfg Co 1200 Pine Dubuque Iowa
Penberthy Injector Co 1242 Holden Av Detroit 2 Mich
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind

PUMPS, STIRRUP

American Line Lowell Mich
Butler Co 325 S Broadway Butler Ind
Hudson (H D) Mfg Co 589 E Illinois Chicago Ill
Red Cross Mfg Co Bluffton Ind
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa
Smith (D B) 406 Main Utica NY
Tennessee Stove Wks Chattanooga Tenn
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind

PUMPS, SUCTION

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
Chicago Pump Co 622 Diversey Pkwy Chicago 14 Ill
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio
Deming Co Salem Ohio
Everite Pump & Mfg Co Inc 617-19 N Prince Lancaster Pa
FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND
Gardner Denver Co 100 Williamson Quincy Ill
Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Worthington Corp S Second St Plainfield NJ

PUMPS, SUMP

American Well Wks 100 N Broadway Aurora Ill
Aurora Pump Co 789 Dearborn Aurora Ill
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Chicago Pump Co 622 Diversey Pkwy Chicago 14 Ill
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
CONSTRUCTION MACHINERY COS 420 VINTON WATERLOO IOWA
Dart Mfg & Sales Co 1002 S Jason Denver Colo
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio
Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
Deming Co Salem Ohio
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Economy Pumps Inc Div Hamilton-Thomas Corp Hamilton Ohio
Everite Pump & Mfg Co Inc 619 N Prince Lancaster Pa
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND
Gardner-Denver Co 100 Williamson Quincy Ill
Goulds Pumps Inc Seneca Falls NY
GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL
Ingersoll-Rand Inc 11 Broadway New York 4 NY
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
Kenco Inc 1125 N Ridge Rd Lorain Ohio
Lancaster Pump & Mfg Co Manheim Pike Lancaster Pa
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
McDonald (A Y) Mfg Co Box 508 Dubuque Iowa
MILWAUKEE FLUSH VALVE CO 301 E RESERVOIR MILWAUKEE 12 WIS
Myers (F E) Bro Co 424-34 Orange Ashland Ohio
Penberthy Injector Co 1242 Holden Av Detroit 2 Mich
Piqua Machine & Mfg Co 441 S College Piqua Ohio
PRECISION PARTS CORP 400 N 1ST NASHVILLE 7 TENN
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa
Sin-Jin Prods Co 5236-40 Fairlawn Av Baltimore 15 Md
Triplex Heating Specialties Co 242-68 Grant Peru Ind
Uniflow Mfg Co 1525 E Lake Rd Erie Pa
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind
Worthington Corp S Second Plainfield NJ

PUMPS, WINDMILL

Aermotor Co 2500 Roosevelt Rd Chicago 8 Ill
Baker Mfg Co 133 Enterprise Evansville Wis
Butler Co 325 S Broadway Butler Ind
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
Columbiana Pump Co E Railroad St Columbiana Ohio
Deming Co Salem Ohio
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND
McDonald (A Y) Mfg Co Box 508 Dubuque Iowa
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa

PUNCHES, CENTER

Baltimore Tool Wks 1110 Race Baltimore 30 Md
Billings & Spencer Co 12 Laurel Hartford 1 Conn
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport Conn
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio
Cleveland Steel Tool Co 660 E 82nd Cleveland 8 Ohio
Crescent Tool Co 200 Harrison Jamestown NY
Damascus Steel Prods Corp 2199 W Kishwaukee Rockford Ill
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Fairmount Tool & Forging Co 10611 Quincy Av Cleveland 6 Ohio
Heller Bros Co Heller Dr Newcomerstown Ohio
Kraeuter & Co Inc 581 18th Av Newark NJ
Mayhew Steel Prods Inc Sears St Extension Shelburne Falls Mass
Mephisto Tool Co Box 16 Hudson NY
Millers Falls Co Wells & Devon Sts Greenfield Mass
Original Enderes Co Guttenburg Iowa
Owatonna Tool Co 341 Cedar Owatonna Minn
P & C Hand Forged Tool Co Portland 22 Ore
Penens Corp 3900 Wesley Ter Schiller Park Ill
Proto Tool Co 2209 Santa Fe Av Los Angeles 54 Cal
Rainey-Tools Grove City Pa
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Tuck Mfg Co 74 Ames Brockton 39 Mass
Union Tool Co 48 E River Orange Mass
United Wire Goods Mfg Co 1150 Broadway New York NY
Vaughn & Bushnell Mfg Co 135 S LaSalle Chicago 3 Ill
Vichek Tool Co 3001 E 87th Cleveland 4 Ohio
Wilde Drop Forge & Tool Co 2942 Fairmount Av Kansas City 8 Mo

PUTTY, LEAD

Biddle Co 608-624 S Main St Louis 2 Mo
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Kuhls (H B Fred) 6411-23 Third Av Brooklyn NY
Landen Putty Wks 45 Irving Malden Mass
Liebich Co 931 N Ogden Chicago 22 Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
National Lead Co 111 Broadway New York 6 NY
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill

PUTTY, METAL SASH

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armstrong Co 1001 E 103rd Chicago 28 Ill
Biddle Co 608-624 S Main St Louis 2 Mo
Blue Ridge Talc Co Inc Henry Va
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
Con-Cor Co 4550 Main Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dicks-Pontius Co 5300 Huberville Rd Dayton Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Felton Sibley & Co 136 N 4th Philadelphia 6 Pa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
King (E & F) & Co Inc 640 Pleasant Norwood Mass
Landen Putty Wks 45 Irving Malden 48 Mass
Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

Nu-GLAZE Glazing Compound
See Pages 14-17
SOLD BY
HARDWARE & LUMBER DEALERS
MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

Mar-Kay Mfg Co 2715 S 2nd St Louis Mo
McGuffie (W W) & Co 3400 Theurer Ct Cleveland 9 Ohio
Parker (Ira) & Sons Inc Oshkosh Wis
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
Smooth-On Mfg Co 572 Communipaw Av Jersey City 4 NJ
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS

PUTTY, OIL

Armstrong Co 1001 E 103rd Chicago 28 Ill
Biddle Co 608-624 S Main St Louis 2 Mo
Blue Ridge Talc Co Inc Henry Va
Boyle-Midway Inc 22 E 40th New York 16 NY
Briggs-Maroney Co 85 Paris Everett 49 Mass
Con-Cor Co 4550 Main Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Dicks-Pontius Co 123 Wayne Dayton Ohio
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Ever-Plastics Corp 420 Lexington Av New York 17 NY
Farwell Ozmun Kirk & Co 108 Fairfield Av W St Paul 1 Minn
Felton Sibley & Co 136 N 4th Philadelphia 6 Pa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Fuller (W P) & Co 301 Mission San Francisco 19 Cal
Glidden Co Berea Rd & Madison St Cleveland 2 Ohio
Goodrich (B F) Co 500 S Main Akron 18 Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co 10th & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
King (E & F) & Co Inc 640 Pleasant Norwood Mass
Kuhls (H B Fred) 6411-6423 3rd Av Brooklyn NY
Landen Putty Wks 45 Irving Malden 48 Mass
Las-Stik Mfg Co "B" & Wayne Sts Hamilton Ohio
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lichten Co Inc 1210 N Hoyne Chicago 22 Ill
Liebich (G L) Co 931 N Ogden Chicago 22 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Mar-Kay Mfg Co 2715 S Second St Louis Mo
National Lead Co 111 Broadway New York 6 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Parker (Ira) & Sons Inc Oshkosh Wis
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Seal Rite Caulking Co 6335 Lyndon Detroit Mich
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Webb Prods Co 216 S "G" San Bernardino Cal
Wetherill (George D) & Co 113 Arch Philadelphia Pa

PUTTY, PLASTICIZED, WOOD

Boyle-Midway Inc 22 E 40th New York 16 NY
Breinig Bros Inc 223 Adams Hoboken NJ
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Lacton Glue Mfg Co 611 Broadway New York 12 NY
Mobile Paint Mfg Co Box 1686 Mobile Ala
National Casein Sales 601 W 80th Chicago 20 Ill
Schalk Chemical Co 351 E 2nd Los Angeles 12 Cal
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Technical Supply Co 1911 University Av Palo Alto Cal
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Webb Prods Co 216 S "G" San Bernardino Cal
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio

PUTTY REMOVERS, ELECTRIC

Fletcher-Terry Co 437 South St Forestville Conn
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

PUTTY, ROOF

Abesto Mfg Corp 131 Wabash Michigan City Ind
Biddle Co 608-624 S Main St Louis 2 Mo
Blue Ridge Talc Co Inc Henry Va
Ford Roofing Prods Co 188 W Randolph Chicago Ill
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Seal Rite Caulking Co 6335 Lyndon Detroit Mich
Smooth-On Mfg Co 574 Communipaw Av Jersey City 4 NJ
Stonhard Co 1306 Spring Garden Philadelphia 3 Pa

PUTTY, WATER

Boyle-Midway Inc 22 E 40th New York 16 NY
Carbola Chemical Co 46 Harris Rd Natural Bridge NY
Durham (Donald) Co Box 804 Des Moines 4 Iowa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Lichten Co Inc 1210 N Hoyne Chicago 22 Ill
Reardon Co 7501 Page Av St Louis 14 Mo
Savogran Co 28 India Wharf Boston 16 Mass
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

RACEWAYS, WIRE CARRYING

Columbia Metal Box Co 260 E 143rd New York 51 NY
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Republic Steel Corp Republic Bldg Cleveland 4 Ohio

RADIATORS

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
BURNHAM CORP BOILER DIV 2 MAIN IRVINGTON NY
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY
Ejay Mfg Co 124 Boyd Winsted Conn
Murray (D J) Mfg Co 1024 Third Wausau Wis
National Radiator Co 223 Central Av Johnstown Pa
Radiant Baseboard Panel Inc 900 W Main New Britain Conn
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal
Smith (H B) Co Westfield Mass
UNITED STATES RADIATOR CORP BUHL BLDG DETROIT 31 MICH
Utica Radiator Corp 2201 Dwyer Av Utica NY
VULCAN RADIATOR CO BOX L STA A HARTFORD CONN
Waterfilm Boilers Inc 36-40 New York Av Jersey City NJ
Weil-McLain Co 641 W Lake Chicago Ill

RADIATORS, CONVECTOR

BUSH MFG CO 179 SOUTH WEST HARTFORD 10 CONN
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill
DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL
DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY
Fedders-Quigan Corp Lalor & Hancock Trenton NJ
Knapp-Monarch Co 3501 Bent Av St Louis Mo
National Radiator Co 223 Central Av Johnstown Pa
Nesbitt (John J) Inc Tacony & Rhawn Philadelphia 36 Pa

Rittling Corp Rand Bldg Buffalo 3 NY
Rome-Turney Radiator Co Canal St Rome NY
Young Radiator Co 709 S Marquette Racine Wis

RADIATORS, PORTABLE

Acme Electric Heating Co 1217 Washington Boston 18 Mass
BURNHAM CORP BOILER DIV 2 MAIN IRVINGTON NY
Electric Steam Radiator Corp 1 Electric Av Paris Ky
Sentry Metal Prods Div Sentry Control Corp Philadelphia 21 Pa

RADIOS, FLUSH WALL

Bendix Radio Div Bendix Aviation Corp Baltimore 4 Md
FLUSH WALL RADIO CO 1012 CLEVELAND CLEARWATER FLA

RAFTERS, LAMINATED

AMERICAN ROOF TRUSS CO 1030 E 87TH CHICAGO 49 ILL
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
Knapp Bros Mfg Co 16 E 72nd Cincinnati 36 Ohio
Laminators Inc 625 E Eastern Av Janesville Wis
McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill
RILCO LAMINATED PRODS INC 2591 1ST NATL BANK BLDG ST PAUL 1 MINN
Super-Structures Inc 1015 S Jefferson Albert Lea Minn
Tacoma Lumber Fabricating Co Tacoma 1 Wash
Timber Structures Inc Box 3782 Portland 8 Ore
Unit Structures Inc Peshtigo Wis
WEYERHAEUSER SALES CO FIRST NATL BANK BLDG ST PAUL 1 MINN
Wollaeger Steel Corp 61 Broadway New York 6 NY
Zink (Frank J) 141 W Jackson Chicago 4 Ill

RAILINGS, METAL

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Apex Brass & Bronze Wks 116 Walker New York 13 NY
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS 2 OHIO
Badger Wire & Iron Wks Inc 2929 W Cleveland Av Milwaukee 7 Wis
Bellkool Co 623 S State Appleton Wis
Belson Mfg Co E River Rd N Aurora Ill
Blum (Julius) Co Inc 532 W 22nd New York 11 NY
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI OHIO
COFFMAN (R G) CO 2809 N ORANGE ORLANDO FLA
Columbus Brass Co 620 Dublin Columbus 16 Ohio
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Decatur Iron & Steel Co 2nd St Decatur Ala
Des Moines Ornamental Iron Co 400-404 S E Jackson Av Des Moines 15 Iowa
Fawsco Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Falls Ohio
Fiske (J W) Iron Wks 80 Park Pl New York NY
Grand Rapids Wire Prods Co 501 Front Av Grand Rapids 4 Mich
Hawkins Iron Co Inc Box 670 Birmingham Ala
Hutchinson Co Box 11 Cedar Grove Sta Shreveport La
International Steel Co 1321 Edgar Evansville 7 Ind
Kentucky Metal Prods Co Preston & Audubon Pk Louisville 4 Ky
Locke Mfg Co Ohio St Lodi Ohio
Logan Co 201 Cabel Louisville 6 Ky
Martin-Parry Corp 1455 W Alexis Rd Box 964 Toledo Ohio
MESKER (GEORGE L) STEEL CORP 400 N W FIRST EVANSVILLE 8 IND
Metal Crafters E Avenue & 18th N E Cedar Rapids Iowa
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio
National Ventilated Awning Co 605 Hall Dallas 1 Tex
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio
Page Steel & Wire Div American Chain & Cable Co Inc Monessen Pa
Parker (S) Hdwe Mfg Co 27 Ludlow New York 2 NY
SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY
Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill
Southern Wire & Iron Wks 441 Memorial Dr S E Atlanta Ga
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
Valley Metal Prods Marseilles Ill
Wiemann (Ernest) Iron Wks 2035 E 11th Tulsa 4 Okla

RAILINGS, WOOD

Angel Novelty Co 340 Broad Fitchburg Mass
Cole Mfg Co Box 2657 Memphis 2 Tenn
CROSSETT LUMBER CO CROSSETT ARK
CURTIS COS INC 1200 S 2ND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Fordyce-Crossett Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Keystone Frame & Mfg Co Box 873 Spokane Wash
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan Co 520 Oregon Oshkosh Wis
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Willamette Valley Lumber Co Portland Ore

RANGES, ELECTRIC, BUILT-IN

Thermador Electrical Mfg Co 5122 District Blvd Los Angeles Cal
THOR CORP 2115 S 54TH AV CICERO 50 ILL

RANGES, ELECTRIC

A B Stove Co Merrill Park Battle Creek Mich
Admiral Corp 3800 Cortland Chicago Ill
American & Southern Corp 1000 6th South Nashville 10 Tenn
Coolerator Corp Box 399 Duluth Minn
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO
Crown Stove Wks 4627-35 W 12th Pl Chicago 50 Ill
Dearborn Stove Co 1700 W Commerce Dallas Tex
Deepfreeze Appliance Div Motor Prods Corp 2301 Davis North Chicago Ill
Detroit Michigan Stove Co 6900 E Jefferson Detroit 7 Mich
Detroit Vapor Stove Div Borg-Warner Corp Detroit Mich
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Florence Stove Co School St Gardner Mass
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
Gibson Electric Refrigerator Corp 515-615 W Williams Greenville Mich
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
Kalamazoo Stove & Furnace Co 56 Rochester Av Kalamazoo Mich
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
Kennedy Co 1620 Dime Bldg Detroit 26 Mich
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo
Majestic Mfg Co 4550 Gustine St Louis Mo
Monarch Malleable Iron Range Co Beaver Dam Wis
Montag Stove & Furnace Wks 2011 N Columbia Blvd Portland Ore
Murray Corp of America 1900 S Washington Scranton 2 Pa
Norge Div Borg-Warner Corp Appliance Div Rm 234 Merchandize Mart Plaza Chicago Ill
Odin Stove Mfg Co 342 W 12th Erie Pa
Perfection Stove Co 7609 Platt Av Cleveland Ohio
Philco Corp Tioga & "C" Philadelphia 34 Pa
Preway Inc 1430 Second N Wisconsin Rapids Wis
RCA Estate Appliance Corp Radio Corp of America Subsid Hamilton Ohio
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa
Rutenber Electric Co Inc Marion Ind
STEVENS (GEO T) & ASSOCIATES 612 N MICHIGAN AV SUITE 205 CHICAGO 11 ILL
THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL
Universal Major Electric Appliance Co Box 119 Lima Ohio
Washington Stove Wks Box 919 Everett Wash
WELBILT STOVE CO INC 57-18 FLUSHING AV MASPETH LI 78 NY
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

RANGES, GAS

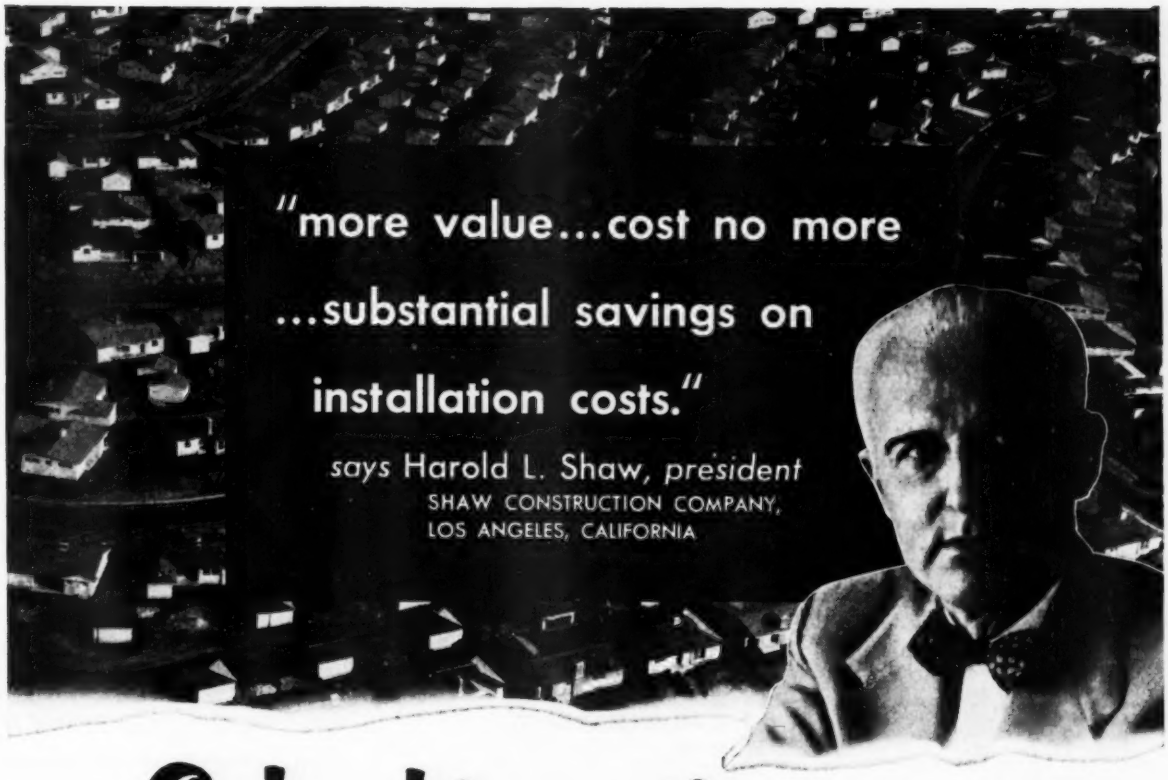
A B Stove Co Merrill Park Battle Creek Mich
American & Southern Corp 1000 6th South Nashville 10 Tenn
Athens Stove Wks Inc Hicks St Athens Tenn
Brown Stove Wks Inc Cleveland Tenn
Caloric Stove Corp Topton Pa
Chambers 2464 N Meridian Indianapolis Ind
Cribben & Sexton Co 700 N Sacramento Blvd Chicago 12 Ill
Crown Stove Wks 4627-35 12th Pl Chicago 50 Ill
Dearborn Stove Co 1700 W Commerce Dallas Tex
Detroit Michigan Stove Co 6900 E Jefferson Detroit 7 Mich
Detroit Vapor Stove Div Borg-Warner Corp Detroit Mich
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Florence Stove Co School St Gardner Mass
Gem City Stove Mfg Co Quincy Ill
Glenwood Range Co 300 W Water Taunton Mass
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
Globe American Corp Kokomo Ind
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn
Hardwick Stove Co Cleveland Tenn
Karr Range Co 7th & Harrison Belleville Ill
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo
Majestic Mfg Co 4550 Gustine Av St Louis 16 Mo
Maytag Co Newton Iowa
Monarch Malleable Iron Range Co Beaver Dam Wis
Mt Vernon Furnace & Mfg Co Mt Vernon Ill
Murray Corp of America 1900 S Washington Scranton 2 Pa
Norge Div Borg-Warner Corp Appliance Div 670 E Woodbridge Av Detroit 26 Mich
Odin Stove Mfg Co 342 W 12th Erie Pa
O'Keefe & Merritt Co 3700 E Olympic Blvd Los Angeles Cal
Paragon Utilities Corp 50 Van Dam Brooklyn NY
Perfection Stove Co 7609 Platt Av Cleveland Ohio
Preway Inc 1430 Second N Wisconsin Rapids Wis
RCA Estate Appliance Corp Radio Corp of America Subsid Hamilton Ohio
Renown Stove Co 1000 W Exchange Owosso Mich
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa
Roper (George D) Corp Blackhawk Av Rockford Ill
Sexton (S B) Stove & Mfg Co 502 W Conway Baltimore Md
Sunray Stove Co Grand Div 2323 E 67th Cleveland 4 Ohio
Tappan Stove Co 250 Wayne Mansfield Ohio
Utility Appliance Corp 4851 S Alameda Los Angeles 11 Cal
Washington Stove Wks Box 919 Everett Wash
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
WELBILT STOVE CO INC 57-18 FLUSHING AV MASPETH LI 78 NY
Western Holly Appliance Co 8536 Hays Culver City Cal
Western Stove Co Inc 8536 Hayes Culver City Cal

RANGES, GAS & ELECTRIC REFRIGERATOR COMBINATION

Acme-National Refrigeration Co 29-24 40th Av Long Island City NY
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
Glenwood Range Co 300 W Water Taunton Mass

RECEIVERS, GARBAGE

Adams Co Box 268 Dubuque Iowa
Air Control Prods Inc Glade at Larch Coopersville Mich
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Beh & Co Inc 1150 Broadway New York NY
Donley Bros Co 13940 Miles Av Cleveland 5 Ohio
Geuder, Paeschke & Frey Co 1439 W St Paul Av Milwaukee Wis
Harris Inc 200 E Long Columbus Ohio
Kraus (Walter S) Co 48-02 43rd Woodside LI NY
Lawson (F H) Co 803 Evans Cincinnati 4 Ohio
LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH
MAJESTIC CO HALL ST HUNTINGTON IND



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- **No painting**—Columbia-matics are rustproof all-aluminum.
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Save work—
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Save money—
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Columbia Mills, Inc., Dept. A-4, Syracuse 2, N. Y.
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Name_____
Company Name_____
Street_____
City_____ Zone_____ State_____

Master Metal Prods Inc 291 Chicago Buffalo 4 NY
National Enameling & Stamping Co 270 N 12th Milwaukee Wis
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
Witt Cornice Co 2118 Winchell Av Cincinnati 14 Ohio

RECEIVERS, PACKAGE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Donley Bros Co 13940 Miles Av Cleveland 5 Ohio
Excel Metal Cabinet Co Inc Jamestown NY
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
Harris Inc 200 E Long Columbus Ohio
Ideal Cabinet Corp 5131 Dempster Skokie Ill
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH

REELS, GARDEN HOSE

Craco Corp 1703 Alamo Dr Glendale 7 Cal
Lawn Hose Holder Co Box 598 Loring Sta Minneapolis Minn
Zierden Mfg Co 3815 S Kinnickinnic Av Milwaukee 7 Wis

REFRIGERATORS, ELECTRIC

Admiral Corp 3800 Cortland Chicago Ill
Amana Society Amana Iowa
Coolerator Corp Box 399 Duluth 1 Minn
Copeland Refrigerators Sidney Ohio
CROSLEY DIV AVCO MFG CO 1329 ARLINGTON CINCINNATI OHIO
Deepfreeze Div Motor Prods Corp North Chicago Ill
Dexter Co Fairfield Iowa
Friedrich (Ed) Inc 1115 E Commerce San Antonio Tex
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
General Implement Corp Terminal Tower Cleveland 13 Ohio
General Refrigerator Corp 678 Broadway New York 12 NY
Gibson Electric Refrigerator Corp 515-615 W Williams Greenville Mich
Gilfillan Bros Inc Venice Blvd & Berendo Los Angeles Cal
Herbst (L B) Corp 325 N Wells Chicago 10 Ill
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
International Harvester Co 180 N Michigan Av Chicago 1 Ill
Jewett Refrigerator Co 2 Letchworth Buffalo 13 NY
Jordan Refrigerator Co 58th & Grays Av Philadelphia 43 Pa
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
King Refrigerator Corp 76-02 Woodhaven Blvd Glendale LI NY
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis
Matot (D A) Inc 1539 W Altgeld Chicago Ill
Norge Div Borg-Warner Corp Appliance Div 670 Woodbridge Av Detroit 26 Mich
Potter Refrigerator Corp Buffalo NY
Quicfrez Inc Fond du Lac Wis
Seeger Refrigerator Co Arcade at Wells St Paul Minn
SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND
THOR CORP 2115 S 54TH AV CICERO 50 ILL
Universal Major Electric Appliance Co Box 119 Lima Ohio
Ward Refrigerator & Mfg Co 6501 S Alameda Los Angeles Cal
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 EAST 4TH MANSFIELD OHIO

REFRIGERATORS, GAS

SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND

REGISTERS, HEATING & VENTILATING

Auer Register Co 669 Clement Av Cleveland 5 Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BENNETT-IRELAND INC 23 STATE NORWICH NY
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Char-Gale Mfg Co 4325 Hiawatha Minneapolis Minn
Dole Valve Co 1923 Carroll Av Chicago 12 Ill
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Front Rank Mfg Co Div Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo
GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND
Hart & Cooley Mfg Co 500 E 8th Holland Mich
HEATILATOR INC 661 E BRIGHTON SYRACUSE 5 NY
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Oil Burner Co 3800 Park Av St Louis 10 Mo
Krauser-Boyd Inc 553 River Rd North Tonawanda NY
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH
Lima Register Co Lima Ohio
MAJESTIC CO HALL ST HUNTINGTON IND
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Philadelphia Hdwe & Malleable Iron Wks N State Rd & Emig Philadelphia Pa
Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill
Titus Inc Box 810 Waterloo Iowa
Tuttle & Bailey Inc 1706 Corbin Av New Britain Conn
United States Register Co 344 E Burnham Battle Creek Mich

REPELLENTS, BIRD

Electra Protection Co Inc 11 N Pearl Albany 7 NY
NIXALITE CO OF AMERICA 115 W 3RD DAVENPORT IOWA
Tanglefoot Co 314 Straight Av S W Grand Rapids 4 Mich

REPELLENTS, INSECT

BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Calumet Refining Co 4321 S Western Chicago Ill
Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
Glidden Co 11001 Madison Cleveland 2 Ohio
PYROFAX GAS CO DIV UNION CARBIDE & CARBON CORP 30 E 42ND NEW YORK 17 NY
Socony-Vacuum Oil Co 26 Broadway New York NY
Unexcelled Chemical Corp 350 Fifth Av New York 1 NY

REPELLENTS, WATER

AMERICAN STA-DRI CO 4019 38TH BRENTWOOD, MD
Armor Laboratories Inc Commercial & Doran Glendale 3 Cal
Blue Ridge Talc Co Inc Henry Va
Boyer Chemical Laboratory Co 2236 S Wabash Chicago Ill
Chapman Chemical Co 714 Dermon Bldg Memphis 2 Tenn
Concor Paint Co 4th & Main Kansas City Mo
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN
Dasco Co Inc 1602 Thames Baltimore 31 Md
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTICS AV PITTSFIELD MASS
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Haynes Prods Co 4007 Farnum Omaha 3 Neb
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill
Monroe Co Inc 10703 Quebec Av Cleveland 6 Ohio
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Protexol Corp 162 Market Kenilworth NJ
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Surface Protection Co 16799 Euclid Cleveland 12 Ohio
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Vita-Var Corp 10 Commerce Ct Newark NJ
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

RESIN, SYNTHETIC

Atlas Mineral Prods Co Mertztown Pa
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Borden Co Chemical Div 350 Madison Av New York 17 NY
Christy Co Inc 4464 Duncan St Louis 10 Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Du Pont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Firestone Plastics Co Pottstown Pa
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTICS AV PITTSFIELD MASS
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
Industrial Chemical Sales Div West Virginia Pulp & Paper Co 230 Park Av New York 17 NY
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn
MONSANTO CHEMICAL CO PLASTICS DIV 1700 S SECOND ST LOUIS MO
National Casein Sales 601 W 80th Chicago 20 Ill
Perkins Glue Co 652 Cannon Av Lansdale Pa
Placo Div Paisley Prods Inc 718 Washington Av North Minneapolis Minn
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Rohm & Haas Co Washington Sq Philadelphia 5 Pa
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

ROLLERS, LAWN

Boyle Mfg Co Los Angeles Cal
Buch Mfg Co 800 S Market Elizabethtown Pa
Consolidated Industries Mixville Rd West Cheshire Conn
Jackson Mfg Co Lochiel Rd Harrisburg Pa
Midland Co 1200 W Rawson Av South Milwaukee Wis
Ohio Machine Prods Co Columbus Ohio
Whitehurst (R W) Mfg Corp 902 Cooke Av Norfolk Va

ROLLERS, LINOLEUM

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Selek (Walter E) & Co 225 W Hubbard Chicago 10 Ill

ROLLS, RIDGE, ROOF VENTILATING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Klauer Mfg Co 9th & Washington Dubuque Iowa

ROLLS, ROOF RIDGE

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Asbestos Co of Texas Div of Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N E CANTON 5 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
BIRD & SON 47 WILSON EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
Continental Steel Corp 1109 S Main Kokomo Ind
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal

KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel 227 Jay LaCrosse Wis
Lehon Co 4425 S Oakley Chicago 9 Ill
METALBESTOS DIV WALLACE (WM) CO BELMONT CAL
Newport Steel Corp 9th & Lowell Newport Ky
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwest Metal Prods Inc 55 Spokane Seattle Wash
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
REYNOLDS METALS CO BUILDING PRODS DIV 2001 NINTH LOUISVILLE 1 KY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

ROOF SADDLES

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich
Hudson (H D) Mfg Co 589 E Illinois Chicago Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Macomb Steel Prods Co Macomb Ill
Simplex Brooder Stove Co 220 Grandville Av S W Grand Rapids 2 Mich

ROOFING, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Alumalux Co Box 591 Pasadena Cal
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Chemical Supply Co 3540 Norton Cleveland Ohio
Childers Mfg Co 3620 W 11th Houston 8 Tex
Kaiser Aluminum & Chemical Corp 1924 Broadway Oakland 12 Cal
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Roliton of America 714 E Van Buren Phoenix Ariz
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga
Tiffin Art Metal Co Tiffin 16 Ohio

ROOFING, ALUMINUM, CORRUGATED

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Childers Mfg Co 3620 W 11th Houston 8 Tex
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga

ROOFING, ASBESTOS CEMENT

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY

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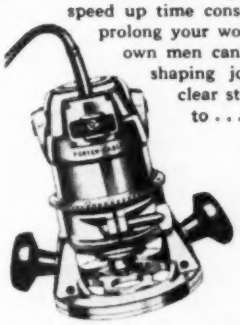

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Address_____
City_____ Zone_____ State_____

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men over 45

More than six times as many men of your age will die of lung cancer this year as died in 1933. Our research scientists still don't know why.

They *do* know, however, that over half of those who will develop lung cancer *can* be saved . . . if they get proper treatment while the disease is still in the silent, symptomless stage. That's why we urge you to have a chest X-ray every six months no matter how well you may *feel*.

For more information call us or write to "Cancer", care of your local Post Office.

American Cancer Society

Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
PABCO PRODS 475 BRANNAN SAN FRANCISCO 19 CAL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
SUPRADUR CORP OF NEW YORK 122 E 42ND NEW YORK 17 NY

ROOFING, ASBESTOS CORRUGATED

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

ROOFING, ASPHALT ROLL

Amalgamated Roofing Co 6600 S Central Chicago 38 Ill
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CO 120 E LANCASTER ARDMORE PA
Chase Bag Co 309 W Jackson Chicago Ill
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Ford Roofing Prods Co 188 W Randolph Chicago Ill
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Lehon Co 4425 S Oakley Chicago 9 Ill
Logan-Long Co 6600 S Central Chicago Ill
National Mfg Corp 3343 Flanagan Tonawanda NY
National Plywoods Inc 2710 Throop Chicago Ill
Nelson (B F) Mfg Co 401 N E Main Minneapolis 13 Minn
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
Protective Papers Inc Union Ill
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Tamko Asphalt Prods Inc 601 N High Joplin Mo
Texas Co 135 E 42nd New York 17 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

ROOFING, BUILT-UP, MATERIALS FOR

Abesto Mfg Corp 131 Wabash Michigan City Ind
Aluminum Building Prods Inc 1145 Mary Jacksonville Fla
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Ford Roofing Prods Co 188 W Randolph Chicago Ill
Haynes Prods Co 4007 Farnum Omaha 3 Neb
JOHNS-MANVILLE 22 E 40TH NEW YORK 16 NY
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Labco Inc 10312 Wilbur Av Cleveland 6 Ohio
Lehon Co 4425 S Oakley Chicago 9 Ill
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO
Plymold Co 2707 Tulare Av Burbank Cal
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Texas Co 135 E 42nd New York 17 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

ROOFING, CONCRETE SLAB

Alabama Cement Tile Co 300 S 41st Birmingham 1 Ala
Cementstone Co Neville Island Pittsburgh 25 Pa

ROOFING, COPPER

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
Edwards Mfg Co 5th & Butler Cincinnati Ohio
Gichner Inc 1900 Kendall N E Washington 2 D C
Hussey (C G) & Co 2860 Second Av Pittsburgh 19 Pa
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
REVERE COPPER & BRASS INC 230 PARK AV NEW YORK 17 NY

ROOFING, SEALERS, CORRUGATED

Fabricated Prods Co Water St West Newton Pa
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

ROOFING STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE CO UNITED STATES STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Armco Steel Corp 703 Curtis Middletown Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N E CANTON 5 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Chemical Supply Co 3540 Norton Cleveland Ohio
Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp 1109 S Main Kokomo Ind
Cupples Co 401 S 7th St Louis 2 Mo
Edwards Mfg Co 5th & Butler Cincinnati Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA
Gary Pioneer Steel Corp Gary Ind
Granite City Steel Co 20th & Madison Granite City Ill
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio
Hopson (W C) Co 216-20 Grandville Av Grand Rapids 2 Mich
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Nickel Co 67 Wall New York 5 NY
Klauer Mfg Co 9th & Washington Dubuque Iowa
Mahon (R C) Co Box 4666 Detroit 34 Mich
Mid States Steel & Wire Co Crawfordsville Ind
Newport Steel Corp 9th & Lowell Newport Ky
NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Quaker State Metal Co Manheim Pike at City Bypass Lancaster Pa
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN
Sioux Steel Co Sioux Falls S D
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala

Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Tiffin Art Metal Co Tiffin Ohio
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

ROOFING, STEEL, ASPHALT COATED

Plasteel Prods Corp 15 McAdam Av Washington Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

ROPE, COTTON

Archer (A W) Co Inc 366 Broadway New York 13 NY
Astrup Co 2957 W 25th Cleveland 13 Ohio
Bibb Mfg Co Macon Ga
Fricke (J E) Co 40 N Front Philadelphia 6 Pa
Graham (John H) & Co Inc 105 Duane New York 8 NY
Hoffman Lion Mills Co Inc Fall River Mass
Lambeth Rope Corp 1000 Tarkiln Hill Rd New Bedford Mass
Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky
Raucher Mfg Co Inc Norwich Conn
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
SAMSON CORDAGE WKS 80 BROAD BOSTON 10 MASS
Silver Lake Co 60 Batterymarch Boston 10 Mass
Southern Mills Corp Oxford Ala
Turner & Stanton Co Norwich Conn
Whitaker (Wm D) Sedgley & Castor Avs Philadelphia 24 Pa

ROPE, HEMP, MANILA & SISAL

American Ladder Co 5509 N W 7th Av Miami 38 Fla
American Mfg Co Noble & West Brooklyn 22 NY
American Tent & Awning Co 1132 Mission San Francisco 3 Cal
Astrup Co 2937 W 25th Cleveland 13 Ohio
Cating Rope Works Inc Maspeth Ll NY
Columbian Rope Co 309 Genesee Auburn NY
Cupples Co 401 S 7th St Louis 2 Mo
Fitler (Edwin H) Co Devereaux & Milnor Philadelphia 24 Pa
Graham (John H) & Co Inc 105 Duane New York 7 NY
Hoffman Lion Mills Inc Fall River Mass
Hosking Paper Co 1301 W Lake Wilmette Ill
International Harvester Co 180 N Michigan Av Chicago 1 Ill
Johnson-Pickett Rope Co 120 Wall New York 5 NY
New Bedford Cordage Co 131 Court New Bedford Mass
Plymouth Cordage Co North Plymouth Mass
Raucher Mfg Co Norwich Conn
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
St Louis Cordage Mills 11th & Lafayette St Louis 4 Mo
Tubbs Cordage Co 104 Sansome San Francisco Cal
Turner & Stanton Co Box 25 Norwich Conn
Wall Rope Wks Inc 48 South St New York 5 NY
Whitaker (Wm B) Sedgley & Castor Avs Philadelphia 24 Pa
Whitlock Cordage Co 46 South St New York 5 NY

ROPE, WIRE

American Cable Div American Chain & Cable Co Inc Wilkes-Barre Pa
AMERICAN STEEL & WIRE CO UNITED STATES STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
Broderick & Bascom Rope Co 4203 N Union Blvd St Louis 15 Mo
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Hazard Wire Rope Div American Chain & Cable Co Wilkes Barre Pa
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
MacWhyte Co 2960 14th Av Kenosha Wis
Roebling's (John A) Sons Corp Broad & Neroni Trenton NJ
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
Upson Walton Co 12500 Elmwood Av Cleveland 11 Ohio
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

ROUTERS, ELECTRIC HOMECRAFT

Chicago Wheel & Mfg Co 1101 W Monroe Chicago Ill
DEWALT INC FOUNTAIN AV LANCASTER PA
Dumore Co 1300 17th Racine Wis
Duro Metal Prods Co 2649 N Kildare Chicago Ill
Ekstrom Carlson & Co 1400 Railroad Av Rockford Ill
Hurricane Machine Wks 6316 Wentworth Chicago 21 Ill
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Porter (C O) Machinery Co 666-68 Front Av N W Grand Rapids 4 Mich
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

RULES, BOARD LUMBERMEN'S

Buck (Frank R) & Co 2133 W Touhy Av Chicago 45 Ill
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
STANLEY WKS 111 ELM NEW BRITAIN CONN

RULES, BOXWOOD

Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
STANLEY WKS 111 ELM NEW BRITAIN CONN
Universal Drafting Machine Co 7960 Lorain Av Cleveland 2 Ohio

RULES, FOLDING

Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill
Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
Economy Novelty & Printing Co 225 W 39th New York NY
EVANS & CO 400 TRUMBULL ELIZABETH NJ
General Hdwe Mfg Co Inc 80 White New York 13 NY
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
International Twist Drill Corp 624 Wyandotte Kansas City 6 Mo
Keuffel & Esser Co 300 Adams Hoboken NJ
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA
Woodmark Industries Inc 4601 Hwy 7 St Louis Park Minneapolis 16 Minn

RULES, SLIDE

Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill
Keuffel & Esser Co 300 Adams Hoboken NJ
Lawrence Engineering Service 98 Smith Peru Ind
Multi-Aid Computer Corp 249 W 34th New York NY
Parisian Novelty Co 3510 S Western Av Chicago 9 Ill
Pickett & Eckel Inc 5 S Wabash Av Chicago 3 Ill
Post (Frederick) Co 333 W Lake Chicago Ill
Rader (Everett) Co Box 122 Bowling Green St New York 4 NY
Union Tool Co 48 E River Orange Mass
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA

RULES, STEEL

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Brown & Sharpe Mfg Co 235 Promenade Providence 1 RI
CARLSON & SULLIVAN 1617 S CALIFORNIA AV MONROVIA CAL
Economy Novelty & Printing Co 225 W 39th New York 18 NY
EVANS & CO 400 TRUMBULL ELIZABETH NJ
Genera' Hdwe Mfg Co Inc 80 White New York 13 NY
International Twist Drill Corp 624 Wyandotte Kansas City 6 Mo
Keuffel & Esser Co 300 Adams Hoboken NJ
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY
Millers Falls Co Wells & Devon Greenfield Mass
Ox-Wall Tool Co 928 Broadway New York 10 NY
Roe (Justus) & Sons 1 Roe Ct Patchogue L I NY
Shedd-Brown Mfg Co 311-321 5th Av S Minneapolis 15 Minn
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Union Tool Co 48 E River Orange Mass
Woodmark Industries Inc 4601 Hwy 7 St Louis Park Minneapolis 16 Minn

SAFES, BUILT-IN WALL

Diebold Inc 818 Mulberry Rd SE Canton 2 Ohio
Dudley Lock Corp 564 W Monroe Chicago Ill
Meilink Steel Safe Co Oakwood & Dawson Av Toledo Ohio
Mosler Safe Co Hamilton Ohio
Mosler Safe Co 320 Fifth Av New York 1 NY
REMINGTON RAND INC 315 FOURTH AV NEW YORK 10 NY

SALAMANDERS

Adams Co Box 268 Dubuque Iowa
Aeroil Prods Co Inc 69 Wesley South Hackensack NJ
Allen Steel Prods Inc 2941 E Ten-Mile Mile Hazel Park Mich
American Steel Wks 1211 W 27th Kansas City 8 Mo
DANIELS (C R) INC 4900 BLOCK WETHERSVILLE RD HILLSDALE BALTIMORE 16 MD
Diener (Geo W) Mfg Co 400 N Monticello Chicago Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Ideal Cabinet Corp 5131 Dempster Skokie Ill
International Mfg Co 2249 S Delaware Denver 19 Colo
Jackson Mfg Co Lochiel Rd Harrisburg Pa
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa
Mohawk Asphalt Heater Co Frankfort NY
Scheu Prods Co Ltd 297 E Stowell Upland Cal
Unique Mfg Co Inc 221 W Walton Chicago Ill

SAND, SILICA WHITE

Crystal Silica Co 717 E 61st Los Angeles Cal
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

SANDERS, BELT, DRUM, SPINDLE & DISC

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
Beach Mfg Co Mill & Boyer Montrose Pa
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Burgess Vibrocrafters Inc Grayslake Ill
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Curtis Machine Corp 1300 E Second Jamestown NY
DEWALT INC FOUNTAIN AV BOX 540 LANCASTER PA
Ekstrom-Carlson & Co 1439 Railroad Av Rockford Ill
HOLT MFG CO 651 20TH OAKLAND 12 CAL
Kent Co Inc 351 Canal Rome NY
MALL TOOL CO 7740 SOUTH CHICAGO AV CHICAGO 19 ILL
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
Minneapolis Machine & Tool Co Minneapolis 4 Minn
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids Mich
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Reid-Way Inc 2955 1st Av Cedar Rapids Iowa
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Shopmaster Inc 1214 Third S Minneapolis Minn
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Thor Power Tool Co 175 N State Aurora Ill
Toolkraft Corp Plainfield St Springfield 1 Mass
Walker-Turner Co Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Yates-American Machine Co 701 Fourth Beloit Wis

SANDERS, ELECTRIC, PORTABLE

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
BRADFORD MACHINE TOOL CO 657-671 EVANS CINCINNATI 4 OHIO
Burgess Vibrocrafters Inc Grayslake Ill

Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Los Angeles 21 Cal
Detroit Surfacing Machine Co 1333 E 8-Mile Rd Hazel Park Mich
DREMEL MFG CO 2420 18TH RACINE WIS
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill
Hilger Co 1209 St Germain St Cloud Minn
Kent Co Inc 351 Canal Rome NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Merit Prods Inc 4023 Irving Pl Culver City Cal
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
National Air Sander Inc 821 Kishwaukee Rockford Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
Shopmaster Inc 1214 Third St S Minneapolis Minn
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Speedway Mfg Co 1834 S 52nd Av Cicero 50 Ill
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Sterling Tool Prods Co 363 E Ohio Chicago 11 Ill
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co 175 N State Aurora Ill
U S Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio
Wen Prods Inc 5806 Northwest Hwy Chicago 31 Ill

SANDERS, FLOOR

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Denver Floor & Safety Supply Co 3801 High Denver Colo
Florboss-Habit Co 4181 W Montrose Chicago 14 Ill
Hilger Co 1209 St Germain St Cloud Minn
HOLT MFG CO 651 20TH OAKLAND 12 CAL
Kent Co Inc 351 Canal Rome NY
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Reid-Way Corp 2935 First Av Cedar Rapids Iowa
Shopmaster Inc 1214 Third St S Minneapolis Minn
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

SASH BALANCES

Acme Sash Balance Co 1626 Long Beach Av Los Angeles 21 Cal
Air-Tite Window Stay Co Chicopee Mass
ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL
Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY
Caldwell Mfg Co 64 Commercial Rochester 14 NY
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Duplex Inc 634 N Lapeer Los Angeles 46 Cal
Fabry (W H) Mfg Co 620 S Date Av Alhambra Cal
Formetal Inc 109 W Water Oak Harbor Ohio
Goshen Sash & Door Co E Purl Goshen Ind
GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS 2 MICH
Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
Industrial Iron Wks Box 4625 6011 S W Macadam Portland 1 Ore
Leidgen Specialty Co Oconomowoc Wis
Lock-Joint Window Co 817 NW 61st Oklahama City 14 Okla
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill
Pullman Mfg Co 325 Hollenbeck Rochester NY
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Samson Prods Co 3219 Armitage Av Chicago 47 Ill
Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn
Star Sash Balance Corp 109 W Water Oak Harbor Ohio
TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN
Unique Balance Co 25 Bruckner Blvd New York 54 NY
Warnica Prods 6416 S Ashland Av Chicago 36 Ill
WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO
Western Foundry Co 2400 S W Water Av Portland 1 Ore
ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL

SASH CORD, FIBER

Archer (A W) Co Inc 366 Broadway New York 13 NY
Cleveland Mills Co Lawndale NC
Cupples Co 401 S 7th St Louis 2 Mo
Frick (J E) Co 40 N Front Philadelphia Pa
Goshen Sash & Door Co E Purl Goshen Ind
Graham (John H) & Co Inc 105 Duane New York 8 NY
Hooper (Wm E) & Sons Co 1319-23 Cherry Philadelphia Pa
Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky
Raucher Mfg Co Inc Norwich Conn
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Rocky Mount Cord Co Inc Box 1271 Rocky Mount NC
SAMSON CORDAGE WKS 80 BROAD BOSTON MASS
Shuford Mills Inc Drawer 340 Hickory NC
Silver Lake Co 60 Batterymarch Boston 10 Mass
Southern Mills Corp Oxford Ala
Whittler Mills Co Chattahoochee Ga

SASH CORD, WIRE

AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
MacWhyte Co 2960 14th Av Kenosha Wis
Roebling's (John A) Sons Corp Broad & Neroni Trenton 2 NJ
Southern Mills Corp Oxford Ala
Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

SASH & DOOR, CUT STOCK, PONDEROSA

Brooks-Scanlon Inc Bend Ore
Burke Millwork Co Fremont Bridge Seattle 3 Wash
Firpine Prods Co Box 546 Oswego Ore
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill
Marquart Millwork Co 50 Cenpe Oshkosh Wis
Templeton (Herbert A) Lumber Co Portland 5 Ore
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

SASH, GREENHOUSE

Burke Millwork Co Fremont Bridge Seattle 3 Wash
Cole Mfg Co Box 2657 Memphis 2 Tenn
Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY
Morgan Co 520 Oregon Oshkosh Wis

SASH HOLDERS

Arrow Mfg Co Box 468 Independence Kan
CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
Ideal Brass Wks 250 E 5th St Paul 1 Minn
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Leidgen Specialty Co Oconomowoc Wis
Rockford Sash Holder Inc 507 Empire Bldg Rockford Ill
Roger Co Inc 3718 Chicago Av Minneapolis 7 Minn
Vikre (J N) Co Inc 3016 14th Av S Minneapolis Minn

SAW MILLS, MACHINERY FOR

American Saw Mill Machinery Co 169 Main Hackettstown NJ
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Champion Blower & Forge Co 1947 Charlotte Lancaster Pa
Chase Turbine Mfg Co Orange Mass
Corinth Machinery Co 480 Tate Corinth Miss
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
Enterprise Co S Main Columbiana Ohio
Filer & Stowell Co 147 E Becher Milwaukee 7 Wis
Industrial Iron Wks Box 4625 6011 S W Macadam Portland 1 Ore
McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis
Mitts & Merrill 1009 S Water Saginaw Mich
Oliver Corp Farquhar (A B) Div 142 N Duke York Pa
Turner Mfg Co Wise St Statesville NC
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

SAW REPAIRS AND ADJUSTMENTS

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
Cunningham Machinery Corp 735 Ricou Shreveport La
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Hanchett Mfg Co 906 N State Big Rapids Mich
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa
Miner & Son Saw Wks Shreveport 90 La
Simonds Saw & Steel Co Meridian Miss

SAW SETS

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Beaver Mfg Co 800 S Isis Av Inglewood 1 Cal
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Foley Mfg Co 3300 N E Fifth Minneapolis 18 Minn
General Hdwe Mfg Co Inc 80 White New York 13 NY
Hanchett Mfg Co 906 N State Big Rapids Mich
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Millers Falls Co Wells & Devon Greenfield Mass
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Smith (Seymour) & Son Oakville Conn
STANLEY WKS 111 ELM NEW BRITAIN CONN
Wardwell Mfg Co 3176 Fulton Rd Cleveland 9 Ohio

SAW SWAGES & SHAPERS

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Hanchett Mfg Co 906 N State Big Rapids Mich
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Wardwell Mfg Co 3167 Fulton Rd Cleveland 9 Ohio

SAWS, BAND

American Saw & Mfg Co 67 Boylston Springfield 1 Mass
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Burgess Vibrocrafters Inc Grayslake Ill
Burton Saw Co 91 Foster Worcester Mass
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Capewell Mfg Co 60 Governor Hartford 2 Conn
Clemson Bros Inc Cottage St Middletown NY

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill
Enterprise Co S Main Columbiana Ohio
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Foster Mfg Co 1 Kinsey Buffalo 17 NY
Graham (John H) & Co Inc 105 Duane New York 8 NY
Hanchett Mfg Co 906 N State Big Rapids Mich
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio
Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa
Hoe (R) & Co 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa
McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis
Millers Falls Co Wells & Devon Greenfield Mass
Oliver Machinery Co 1025 Clancy Av N E Grand Rapids 2 Mich
Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio
Payne (B H) & Co 101 W Taylor Av East Point Ga
Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Starrett (L S) Co 101 Crescent Athol Mass
Tannewitz Wks 303 Front Av NW Grand Rapids 4 Mich
Toolkraft Corp Plainfield St Springfield 1 Mass
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, BENCH

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Hanchett Mfg Co 906 N State Big Rapids Mich
Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Shopmaster Inc 1214 Third St S Minneapolis Minn
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, BUCKING

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Lowther (Henry A) Co Moen Av & Thomas Joliet Ill
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Titan Chain Saws Inc 2700 4th Av S Seattle 4 Wash

SAWS, CHAIN, TREE FELLING & BUCKING, POWERED

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Hansen Machinery & Supply Co 820 Broadway Eureka Cal
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY
Jacques Power Saw Co Denison Tex
Lombard Governor Corp Main & Pleasant Ashland Mass
Lowther (Harry A) Co Moen Av & Thomas Joliet Ill
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Ottawa Mfg Co Ottawa Kan
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Terrill (D D) Saw Co Bangor Me
Titan Chain Saws Inc 2700 4th Av S Seattle 4 Wash
Vulcan Iron Wks Co 1423 Stout Denver 2 Colo

SAWS, CHAMFERING

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
DEWALT INC BOX 540 LANCASTER PA
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, CIRCULAR DADO

American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH
Beach Mfg Co Mill & Boyer Montrose Pa

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BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Master-Taper Co 4531 N Beacon Chicago 40 Ill
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Media Machine Wks Inc 620 Park Av Media Pa
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Toolkraft Corp Plainfield St Springfield 1 Minn
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (JD) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, CIRCULAR, INSERTED TOOTH

American Saw Mill Machinery Co 169 Main Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Meyers (W F) Co 1017 14th Bedford Ind
Miner & Son Saw Wks Shreveport 90 La
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Simonds Saw & Steel Co Meridian Miss
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, CIRCULAR, SOLID TOOTH

Albertson & Co Inc Sioux City 3 Iowa
American Saw Mill Machinery Co 169 Main Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Corley Mfg Co Clifton Hills Chattanooga Tenn
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Filer & Stowell Co 147 Becher Milwaukee 7 Wis
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY
Hutchinson Mfg Co Norristown Pa
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Media Machine Wks Inc 620 Park Av Media Pa
Miner & Son Saw Wks Shreveport 90 La
PTI Inc 401 Broadway New York 13 NY
Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio
Power (L) & Co 2815 Oakford Philadelphia 46 Pa
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Shopmaster Inc 1214 Third St S Minneapolis Minn
Simonds Saw & Steel Co Meridian Miss
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, CUTOFF, POWERED

American Saw & Mfg Co 67 Boylston Springfield 1 Mass
American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
C K L Machinery Co 160 Harrison Oshkosh Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Corinth Machinery Co 480 Tate Corinth Miss
Corley Mfg Co Clifton Hills Chattanooga 1 Tenn
DEWALT INC BOX 540 LANCASTER PA
Evans (Robert G) Co 6315 Brookside Plaza Kansas City 13 Mo
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Frick Co 320 Broadway Waynesboro Pa
Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill
Media Machine Wks Inc 620 Park Av Media Pa
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
Porter (C O) Machinery Co 666-668 Front Av NW Grand Rapids 4 Mich
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Stetson-Ross Machine Co 3200 1st Av S Seattle 4 Wash
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, FOLDING

GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, GROOVING

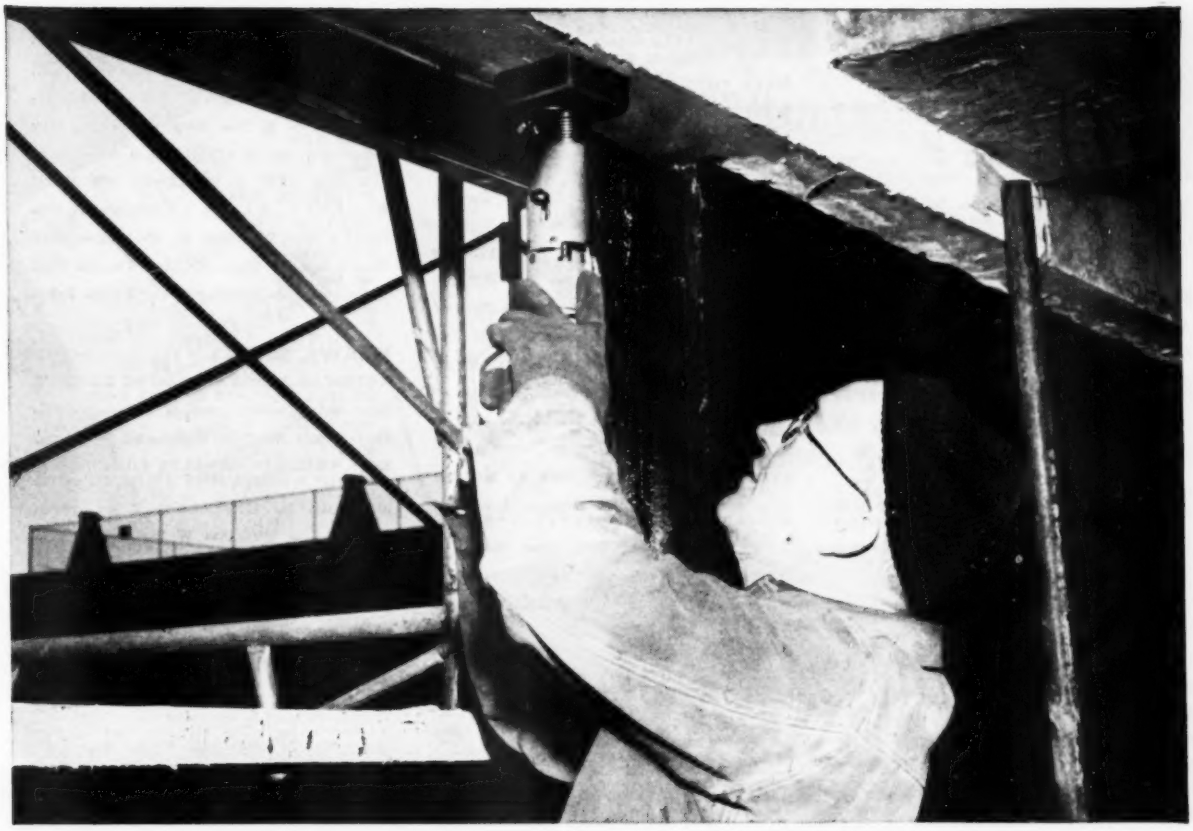
American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Media Machine Wks Inc 620 Park Av Media Pa
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Wallace (J D) Mfg Co 136 S California Av Chicago 12 Ill
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, HACK

American Saw & Mfg Co 67 Boylston Springfield 1 Mass
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Capewell Mfg Co 64 Governor Hartford 2 Conn
Clemson Bros Inc Cottage St Middletown NY
Consolidated Tool Wks Torrington Conn
Crescent Tool Co 200 Harrison Jamestown NY
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Graham (John H) & Co 105 Duane New York 8 NY
K D Mfg Co 526 Plum Lancaster Pa
Lipe-Rollway Corp 806 Emerson Av Syracuse 1 NY
Mephisto Tool Co Inc Box 16 Hudson NY
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
Parker Mfg Co 149 Washington Worcester Mass
Proto Tool Co 2209 Santa Fe Av Los Angeles 54 Cal
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Starrett (L S) Co 101 Crescent Athol Mass
Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY
TRI-SAW CORP 6611 CLAYTON RD ST LOUIS 17 MO
United Wire Goods Mfg Co Inc 1152 Broadway New York NY
Victor Saw Wks Inc 10 Cottage Pl Middletown NY
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wilson Hdwe Mfg Co 4432 S State Chicago Ill

SAWS, HAND

Allway Mfg Co 2061 Bronx Bronx 60 NY
American Saw & Mfg Co 67 Boylston Springfield 1 Mass
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Capewell Mfg Co 60 Governor Hartford 2 Conn
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO
Graham (John H) & Co 105 Duane New York 8 NY
Hartmeister Mfg Co Inc 2020W Barberry Pl Denver 4 Colo
Pennsylvania Saw Corp York Pa
Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio
Sandvik Saw & Tool Corp 47 Warren New York 7 NY



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SAWS, HOLE

American Saw & Mfg Co 67 Boylston Springfield 1 Mass
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
Circo Tool Co 3805 W Lisbon Milwaukee Wis
Millers Falls Co Wells & Devon Greenfield Mass
Misener Mfg Co 202-8 Walton Syracuse 2 NY
Technical Glass Co Inc 2050 E 48th Los Angeles 58 Cal
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, JIG, POWERED

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
Beach Mfg Co Mill & Boyer Montrose Pa
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Burgess Vibrocrafters Inc Grayslake Ill
DALTON MFG CO 20 S CENTRAL AV ST LOUIS 5 MO
DEWALT INC BOX 540 LANCASTER PA
DREMEL MFG CO 2420 18TH RACINE WIS
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
Shopmaster Inc 1214 Third St S Minneapolis Minn
Toolkraft Corp Plainfield St Springfield 1 Mass
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, MITER

American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Tannewitz Wks 303 Front Av NW Grand Rapids 4 Mich
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, MULEY

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, PORTABLE ELECTRIC

Acro Tool & Die Wks 4554 Broadway Chicago 40 Ill
AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
American Woodworking Machinery Co 100 Liberty Hackettstown NJ
BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
BRADFORD MACHINE TOOL CO 656-71 EVANS CINCINNATI 4 OHIO
Burgess Vibrocrafters Inc Grayslake Ill
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL
DEWALT INC BOX 540 LANCASTER PA
DREMEL MFG CO 2420 18TH RACINE WIS
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
H & S Sales 2610 N Halsted Chicago Ill
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio
Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa
Kett Tool Co 5 E 3rd Cincinnati 2 Ohio
Lipe-Rollway Corp 806 Emerson Av Syracuse 1 NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill
Portable Electric Tools 320 W 83rd Chicago 20 Ill
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Producers & Distributors Inc 714 S Sixth Allentown Pa
RCS TOOL SALES CORP BOX 1434 JOLIET ILL
Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Speed-Way Mfg Co 1834 S 52nd Av Cicero 50 Ill
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co 175 N State Aurora Ill
TRI-SAW CORP 6611 CLAYTON RD ST LOUIS 17 MO
Vulcan Iron Wks Co 1423 Stout Denver 2 Colo
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, RADIAL

American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA
DEWALT INC BOX 540 LANCASTER PA
Flexsaw Co Port Austin Mich
Hendrick Mfg Co 11 Selman Marblehead Mass
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Media Machine Wks Inc 620 Park Av Media Pa
PORTER-CABLE MACHINE CO 1740 N SALINA SYRACUSE 8 NY
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Shopmaster Inc 1214 Third St S Minneapolis Minn
SKIL CORP 5033 ELSTON AV CHICAGO 30 IL
Walker Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

SAWS, RIP

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
American Woodworking Machinery Co 100 Liberty Hackettstown NJ
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Corley Mfg Co Clifton Hills Chattanooga Tenn
Dependable Machine Co Box 1235 Sedgefield Greensboro NC
DEWALT INC BOX 540 LANCASTER PA
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill
Media Machine Wks Inc 620 Park Av Media Pa
Muskegon Machine Co S Robinson Av Newburgh NY
Newman Machine Co Inc 507 Jackson Greensboro NC
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Shopmaster Inc 1214 Third St S Minneapolis Minn
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, SCROLL

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Parker Mfg Co 149 Washington Worcester Mass
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Shopmaster Inc 1214 Third St S Minneapolis Minn
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SAWS, SWING

Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Corinth Machinery Co 480 Tate Corinth Miss
Corley Mfg Co Clifton Hills Chattanooga Tenn
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Filer & Stowell Co 147 E Becher Milwaukee 1 Wis
Heston & Anderson Div St Paul Foundry & Mfg Co 601 W Kirkwood Fairfield Iowa
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
Lane Mfg Co Montpelier Vt
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Newman Machine Co Inc 507 Jackson Greensboro NC
Shopmaster Inc 1214 Third St S Minneapolis Minn
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass
Yates-American Machine Co 701 Fourth Beloit Wis

SAWS, TILTING ARBOR, TABLE

American Woodworking Machinery Co 100 Liberty Hackettstown NJ
ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH
Beach Mfg Co Mill & Boyer Montrose Pa
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
DEWALT INC BOX 540 LANCASTER PA
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
Greenlee Bros & Co 2136 12th Rockford Ill
Henniker Machine Co Henniker NH
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Shopmaster Inc 1214 Third St S Minneapolis Minn
Toolkraft Corp Plainfield St Springfield 1 Mass
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal
Whitney (Baxter D) & Son Inc Elm St Winchendon Mass
Yates-American Machine Co 701 Fourth Beloit Wis

...a hand that can't be beat!

♥ DESIGN

...exclusively for gas. HYDROTHERM transfers more heat in less space with minimum water content.

♣ CONSTRUCTION

...long life cast iron heat exchanger, factory assembled and wired, with all controls enclosed in deluxe jacket.

♦ PERFORMANCE

...highly efficient for all gases, quick response, no override. Guarantees trouble-free, silent, automatic heating.

♠ PRICE

...now everyone can enjoy luxurious hot water heat. HYDROTHERM costs less to buy... less to install... less to operate!

HYDROTHERM

If you are in gas heating . . . wholesaler, contractor, designer . . . you should investigate the Hydro-Therm packaged unit, factory assembled and wired. . .

- It's the pace setter for modern baseboard, convector and radiant systems!
- It's a natural companion for the packaged air conditioner!
- It's the most efficient for volume water heating!

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Champion Mfg Co 2028 Washington Av St Louis 3 Mo
CLIPPER MFG CO 2800 WARWICK KANSAS CITY MO
Construction Machinery Co 420 Vinton Waterloo Iowa
Evans (Robert G) Co 6315 Brookside Plaza Kansas City 5 Mo
EVEREADY BRIKSAW CO 1509 S MICHIGAN AV CHICAGO 5 ILL
Martin Fireproofing Co 2100 Military Rd Buffalo NY
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Simonds Abrasive Co Tacony & Fraley Philadelphia 37 Pa
Stone Machinery Co Stone Bldg Manlius NY
Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

SCAFFOLDING, SCAFFOLDS & BRACKETS

Acme Scaffold Co Inc 168 Nostrand Av Brooklyn NY
Advance Equipment Mfg Co 4617 W Chicago Av Chicago Ill
Ajax Building Bracket Co 1551 Rydalmount Rd Cleveland Heights Ohio
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Ladder Co 5509 NW 7th Av Miami 38 Fla
Amidon Engineering Co 38369 Cleveland Rd Elyria Ohio
Babcock (W W) Co Inc Delaware Av Bath NY
Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind
Bauer Mfg Co Palmer St Wooster Ohio
Beaver Advance Corp Ellwpod City Pa
Beaver Art Metal Corp Ellwood City Pa
Berg (John) Mfg Co 5319 S LaSalle Chicago Ill
BIL-JAX INC 100 WYSE RD ARCHBOLD OHIO
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Breyer Bros Whiting & Co Shaler St Waupun Wis
Caster Mold & Machine Co 1171 Wooster Barberton Ohio
Conver Steel & Wire Co 621 E 132nd New York 54 NY
Du-All Scaffold Bracket Co 44 E Broad Columbus Ohio
Fischer Bracket Co Hyde Park 36 Mass
Flint (A W) Co 85 Lloyd New Haven 6 Conn
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind
Goshen Mfg Co 10th & Reynolds Goshen Ind
Harris Inc 200 E Long Columbus Ohio
Hoitsma (P) Adjustable Scaffold Bracket Co 261-265 E 23rd Paterson 4 NJ
Holland Ladder & Mfg Co 13053 W 17th Holland Mich
Howard Mfg Co of California 2428 E 56th Los Angeles 58 Cal
Lewis-Skinner Co New Boston NH
Marvel Equipment Co 1055 Bowen Oshkosh Wis
Michigan Ladder Co 12 E Forest Av Ypsilanti Mich
Moulton Ladder Mfg Co 2-40 Harding Somerville Mass
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa
Newark Ladder & Bracket Co 17 Walnut Av Clark (Rahway) NJ
Patent Scaffolding Co 38-21 12th Long Island City 1 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reliable Jack Co Dayton Ohio
Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
Rote Trading Corp 41 E 42nd New York 17 NY
SAFWAY STEEL PRODS INC 6228 W STATE MILWAUKEE WIS
Shlagro Steel Prods Corp 84 Washington Somerville Mass
Steadfast Equipment Co 874 Franklin Av Thornwood NY
STEEL SCAFFOLDING CO 856 HUMBOLDT BROOKLYN 22 NY
SUPERIOR SCAFFOLD CO 5624 BANKFIELD AV CULVER CAL
Tilley (John S) Ladders Co 112 Second Watervliet NY
Universal Mfg Co W New Castle Zelienople Pa
WACO MFG CO 3565 WOODDALE AV MINNEAPOLIS 16 MINN
Wagner Mfg Co First & Washington Cedar Falls Iowa
Woodenware Prods Corp 122 N 7th St Louis 1 Mo

SCALES, PLATFORM, PORTABLE

Detecto Scales Inc 540 Park Av Brooklyn 5 NY
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
Hanson Scale Co 1777 Shermer Rd Northbrook Ill
Howe Scale Co 2947 Scale Av Rutland Vt
Johnson (C S) Co Box 71 Champaign Ill
Kwik-Mix Co Port Washington Wis
Toledo Scale Co 1009 Telegraph Rd Toledo 1 Ohio

SCRAPERS, FLOOR

Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
Fletcher Terry Co 437 South Forestville Conn
Heller Bros Co Heller Dr Newcomerstown Ohio
HOLT MFG CO 651 20TH OAKLAND 12 CAL
Hook Scraper Mfg Co 96-05 219th Queens Village NY
Millers Falls Co Wells & Devon Greenfield Mass
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

SCRAPERS, FOOT

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Cincinnati Iron Fence Co Inc 2101 Florence Av Cincinnati 6 Ohio
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Lawrence Bros Sterling Ill
NATIONAL MFG CO STERLING ILL
RICHARDS-WILCOX MFG CO 174 THIRD AURORA ILL
Standard Bronze Co 179 W 5th Bayonne 20 NJ

SCRAPERS, PAINT

Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Fletcher Terry Co 437 South St Forestville Conn
Handy Things Mfg Co N Rowe Ludington Mich
Heller Bros Co Heller Dr Newcomerstown Ohio
Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa
Hook Scraper Mfg Co 96-05 219th Queens Village NY
Leetonia Tool Co 142 Main Leetonia Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

SCRAPERS, POWERED

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS
AMERICAN TRACTOR CORP TERRA DR CHURUBUSCO IND
Caterpillar Tractor Co 600 W Washington East Peoria 8 Ill

SCRAPERS, WOOD

Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
Black Panther Tool Co 4051 S Iowa Milwaukee 7 Wis
Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa
Fletcher Terry Co 437 South Forestville Conn
Glaziers' Tool Mfg Corp 611 W Adams Chicago 6 Ill
Heller Bros Co Heller Dr Newcomerstown Ohio
Hook Scraper Mfg Co 96-05 219th Queens Village NY
Lamson & Goodnow Mfg Co Shelburne Falls Mass
Millers Falls Co Wells & Devon Greenfield Mass
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn
Whitney (Baxter D) & Sons Inc Elm St Winchendon Mass

SCREEDS, METAL BASE

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE WIS
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Richmond Screw Anchor Co Inc 816 Liberty Av Brooklyn 8 NY
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wheeling Corrugating Co Wheeling W Va

SCREEN WIRE STRETCHERS

FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL
Markwell Mfg Co 200 Hudson New York 13 NY

SCREENING, INSECT WIRE

Ace Window Screen Co of America 1634 S Pulaski Rd Chicago 23 Ill
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Cambridge Wire Cloth Co 940 Washington Blvd Cambridge Md
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Clark Wire & Supply Co 1638 S Pulaski Rd Chicago 23 Ill
Clinton Wire Cloth Co 1940 Seaman Clinton Iowa
Colorado Fuel & Iron Corp Continental Bldg Denver 2 Colo
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Cyclone Fence Dept American Steel & Wire Div U S Steel Corp Box 260 Waukegan 1 Ill
Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill
Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
Hanover Wire Cloth Div Continental Copper & Steel Industries Inc Hanover Pa
Heilig Bros Co 24 W North York Pa
Jelliff (C) Mfg Corp 122 Pequot Av Southport Conn
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
NEW YORK WIRE CLOTH CO 63 PARK NEW CANAAN CONN
NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA
Pacific Wire Prods Co 1955 E 16th Los Angeles Cal
Pennwoven Inc 70 E 45th New York 17 NY
Pequot Wire Cloth Co Inc Hoyt St South Norwalk Conn
Reynolds Wire Co 85 Crawford Dixon Ill
Roebling's (John A) Sons Corp Broad & Neroni Trenton 2 NJ
Screens & Fabricated Metals Corp 3323 Paterson Plank Rd North Bergen NJ
Seneca Wire & Mfg Co Vine St Fostoria Ohio
Smith (F P) Wire & Iron Wks 2340 N Clybourn Av Chicago 14 Ill
Spargo Wire Co 560 E Railroad Rome NY
Standard Wire Cloth & Screen Co East & Pennsylvania RR York Pa
Valentine Equipment Co 561 W Washington Chicago Ill
Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal
Wickwire Bros Inc 189 Main Cortland NY
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson (L S) Mfg Co 7421 S Loomis Blvd Chicago 38 Ill

SCREENING, PLASTIC, WIRE REINFORCED

DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Firestone Plastics Co Pottstown Pa
Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill
LUMITE DIV CHICOPEE MILLS INC 47 WORTH NEW YORK 13 NY
Plastic Woven Prods 51 Camden Paterson NJ
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL

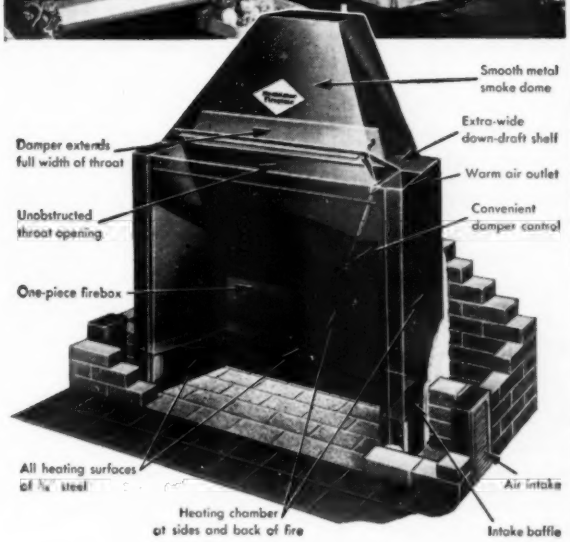
SCREENS, CHIMNEY

Donley Bros Co 13910 Miles Av Cleveland 5 Ohio

SCREENS, TENSION

B & W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX

Easier way to build a FIREPLACE that will not smoke



Build it around the HEATILATOR UNIT

The Heatilator unit makes it easier to build any fireplace correctly. That's because the unit is a scientifically designed steel form that does away with guesswork and rule-of-thumb methods. You know *in advance* that the fireplace will work properly—will not smoke! At the same time, it provides a source of warm air that is gently circulated to all parts of the room.

Saves Time and Labor

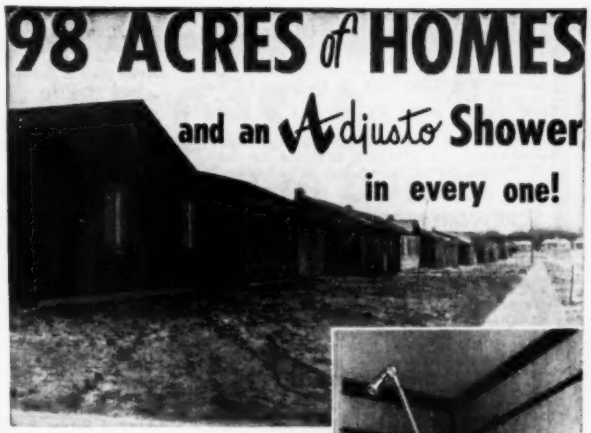
All vital parts such as firebox, throat, down-draft shelf, damper and smoke dome are built in the unit. That saves construction time—the fireplace goes up faster with less masonry to lay. Further, it puts no limit on mantel design nor choice of materials.

Satisfies Home Buyers

The Heatilator unit is your best assurance that the finished fireplace will satisfy home buyers. They like the certainty of its smokeless operation as well as the extra comfort of the warm air that is circulated to all parts of the room—even adjoining rooms. Write for free folder with specifications. Heatilator, Inc., 924 E. Brighton Ave., Syracuse 5, N. Y.

HEATILATOR® FIREPLACE

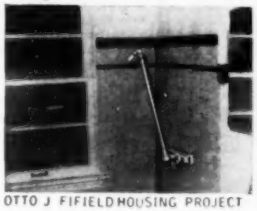
98 ACRES of HOMES and an Adjusto Shower in every one!



PROJECT OF PAUL E SCHLEICHER & ASSOC

Why 3 out of 4 Gary Builders Specify Adjusto tub and shower fixtures . . .

We went to Gary and found the facts! 75% of Gary's builders *specified* Adjustos in large plumbing contracts *year* after *year* — project after project. Why? Because ADJUSTOS cost *less* per unit — were easier to install and offered another major feature in selling the home. From Maine to the 3000 home Panorama City in California, ADJUSTOS are the answer to large housing projects.



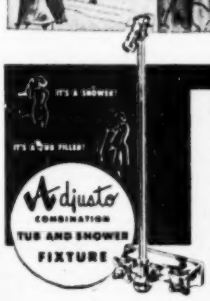
OTTO J FIFIELD HOUSING PROJECT

HOMES SELL FASTER . . . Yes, and rent easier too, because ADJUSTO is both an Adjustable Shower and Tub Filling Spout. Costs little more than separate tub filler and offers more advantages than a regular shower because it adjusts to any height. A beautiful fixture, it compliments any bathroom.

CUTS COSTS . . . Adjusto may be put on *after* tiling and decorating . . . on the outside of the wall. Takes half the time and labor of other type fixtures. Later installation assures you Adjusto is safe from vandalism, damage or theft.

MAKES HAPPY HOME OWNERS . . . An Adjusto meets needs of the entire family. A fine needle spray full height shower for father, a leisurely tub bath and shampoo for mother and it's adjustable to any height for children.

Available at your dealers, or jobber, or write direct



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Milwaukee 12, Wis.

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KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Lockhart Mfg Corp 6350 E Davison Av Detroit 12 Mich
NEW YORK WIRE CLOTH CO 63 PARK NEW CANAAN CONN
Pemko Mfg Co 4070 Hubbard Emeryville Cal
Rudiger-Lang Co 2701 8th Berkeley 10 Cal
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky

SCREWDRIVERS

Billings & Spencer Co 12 Laurel Hartford 1 Conn
BLACK & DECKER MFG CO 600 PENNSYLVANIA AV TOWSON 4 MD
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Crescent Tool Co 200 Harrison Jamestown NY
Damascus Steel Prods Corp 2199 Kishwaukee Rockford Ill
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill
Fairmount Tool & Forging Co 10611 Quincy Av Cleveland Ohio
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Fuller Tool Co 905 Faile Bronx 59 NY
Glaziers' Tool Mfg Corp 611 W Adams Chicago 6 Ill
GREENLEE TOOL CO 2136 12TH ROCKFORD ILL
Irwin Auger Bit Co Wilmington Ohio
Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass
Mephisto Tool Co Inc Box 16 Hudson NY
Millers Falls Co Wells & Devon Greenfield Mass
North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa
Owatonna Tool Co 341 Cedar Owatonna Minn
Ox-Wall Tool Co 928 Broadway New York 10 NY
P & C Hand Forged Tool Co Portland 22 Ore
Parker Mfg Co 149 Washington Worcester Mass
Peck Stow & Wilcox Co Mill St Southington Conn
Penens Corp 3900 Wesley Ter Schiller Park Ill
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal
Rainey-Tools Grove City Pa
Reed & Prince Mfg Co 1 Duncan Av Worcester 1 Mass
Rugol Co 176 Franklin New York 13 NY
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
Slaymaker Lock Co 115 W End Av Lancaster Pa
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Tuck Mfg Co 74 Ames Brockton 39 Mass
Union Hdwe Co Torrington Conn
United Wire Goods Mfg Co 1150 Broadway New York NY
Vlchek Tool Co 3001 E 87th Cleveland 4 Ohio

SCREWDRIVERS, PORTABLE, ELECTRIC

BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD
Chicago Pneumatic Tool Co 6 E 44th New York NY
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Ingersoll-Rand Co 11 Broadway New York NY
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Millers Falls Co Wells & Devon Greenfield Mass
MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
Thor Power Tool Co 175 N State Aurora Ill
U S Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio

SCREWDRIVERS, RATCHET

General Hdwe Mfg Co Inc 80 White New York 13 NY
GREENLEE TOOL CO 2136 12TH ROCKFORD ILL
Kipton Industries Kipton Ohio
Millers Falls Co Wells & Devon Greenfield Mass
North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa
Ox-Wall Tool Co 928 Broadway New York 10 NY
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

SCREWS

Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
American Screw Co 1670 W Main Willimantic Conn
Atlantic Screw Wks Hartford Conn
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Bristol Co Waterbury 20 Conn
Buffalo Bolt Co Div Buffalo-Eclipse Corp 101 East Av North Tonawanda NY
CARLTON SCREW CO 2134 W LAWRENCE CHICAGO 25 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Clark Bros Bolt Co Inc Milldale Conn
Continental Screw Co 100 Mt Pleasant Av New Bedford Mass
EAGLE LOCK CO 20 S MAIN TERRYVILLE CONN
Elco Tool & Screw Corp 1800 Broadway Rockford Ill
Genesco Tools 1830 N Kostner Av Chicago 39 Ill
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS
Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio
National Guard Prods 757 Madison Memphis 7 Tenn
NATIONAL LOCK CO 1902 SEVENTH ROCKFORD ILL
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
Paine Co Fullerton & Westgate Rd Addison Ill
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Parker-Kalon Corp 200 Varick New York 14 NY
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Reed & Prince Mfg Co 1 Duncan Av Worcester 1 Mass
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Rockford Screw Prods Co 2501 9th Rockford Ill
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
SOUTHERN SCREW CO 118 RICKERT STATESVILLE NC
Southington Hdwe Mfg Co 168 Center Southington Conn
Stronghold Screw Prods 1883 W Winnemac Av Chicago 40 Ill
United Screw & Bolt Corp Chicago Div 2513 W Cullerton Chicago 8 Ill

SEALERS, SYNTHETIC RESIN

Dennis Chemical Co 2701 Papin St Louis Mo
Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio
Kleen-Kote Co 601 W 80th Chicago 20 Ill
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
McCloskey Varnish Co 7600 State Rd Philadelphia 36 Pa
Minnesota Platon Corp Platon Bldg Pipestone Minn
Monsanto Chemical Co Western Div 911 Western Av Seattle 4 Wash
RODDIS PLYWOOD CORP MARSHFIELD WIS
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vita-Var Corp 10 Commerce Ct Newark NJ

SEPTIC TANK FERMENTATION COMPOUND

Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Thomas Sanitary Prods Co Akron 8 Ohio

SEWER JOINT COMPOUNDS

American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Nukem Prods Corp 111 Colgate Av Buffalo 20 NY
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Servicised Prods Corp 6051 W 65th Chicago 38 Ill
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio

SHADES, PORCH

Aeroshade Co 5394 Oakland Av Waukesha Wis
Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
Central Venetian Blind Mfg Co 2829 N Natoma Chicago 34 Ill
CONSOLIDATED VENETIAN BLIND CO DIV CONSOLIDATED GENERAL PRODS INC 2401 NICHOLSON BOX 7425 HOUSTON 8 TEX
DeJong Inc 34-23 36th Long Island City 1 NY
HOUGH SHADE CORP 1203 S JACKSON JANESVILLE WIS
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
Warren Shade Co Inc 2907 E Hennepin Av Minneapolis 13 Minn
Warren Venetian Blind Co 2907 E Hennepin Av Minneapolis 13 Minn

SHADES, WINDOW

Aeroshade Co 5394 Oakland Av Waukesha Wis
Bailey & Weston Inc 81 Washington North Boston Mass
Bills Window Shade & Venetian Blind Co 5459 Lake Park Av Chicago 15 Ill
Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
Clopay Corp Clopay Sq Cincinnati 14 Ohio
COLUMBIA MILLS INC 428 S WARREN SYRACUSE 2 NY
Columbus Coated Fabrics Corp 7th & Grant Av Columbus 16 Ohio
DeJong Inc 34-23 36th Long Island City 1 NY
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Harmon (F S) Co 1938 Pacific Tacoma Wash
HOUGH SHADE CORP 1203 S JACKSON JANESVILLE WIS
Kane Mfg Corp Box 641 Kane Pa
Stewart Hartshorn Co 250 Fifth Av New York 1 NY
Volker (William) & Co 230 Main Kansas City 10 Mo

SHAFTS, FLEXIBLE

MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Walker Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ

SHAKES, CEDAR, STAINED

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Bestwood Cedar Shingle Co Ltd Box 857 Vancouver B C Canada
Butler-McDougall Mfg Co Ltd Vancouver B C Canada
Canadian Forest Prods Ltd Hunting-Merritt Shingle Div Vancouver 14 B C Canada
Capilano Timber Co Ltd Box 608 Vancouver B C Canada
COLONIAL CEDAR CO 600 W NICKERSON SEATTLE 99 WASH
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
Douglas Fir Wholesalers Inc Marysville Wash
Jamison Lumber & Shingle Co Everett Wash
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Longlyfe Shingle Co Box 533 Kalama Wash
Mackie Mill Co Westport Rte Aberdeen Wash
MacMillan & Bloedel Ltd 837 Hastings Vancouver B C Canada
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Mt Pleasant Shingle Co Port Angeles Wash
Northwest Cedar Prods Ltd Foot of Kerr Rd Vancouver B C Canada
Olympic Stained Prods Co 1118 Leary Way Seattle Wash
Perma Prods Co 5455 Broadway Cleveland 27 Ohio
Plytex Corp 1731 Elston Av Chicago 22 Ill
Portland Shingle Co 9036 N Denver Av Portland Ore
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Smith (M R) Lumber & Shingle Co 327 White Bldg Seattle 1 Wash
WEATHERBEST CORP 986 OLIVER NORTH TONAWANDA NY
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

SHAMPOO, SPRAY

T & S BRASS & BRONZE WKS INC 32 URBAN AV WESTBURY L I NY

SHAPERS

ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH
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BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
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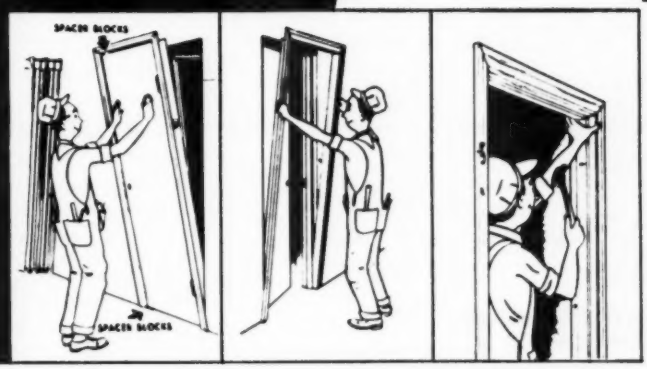
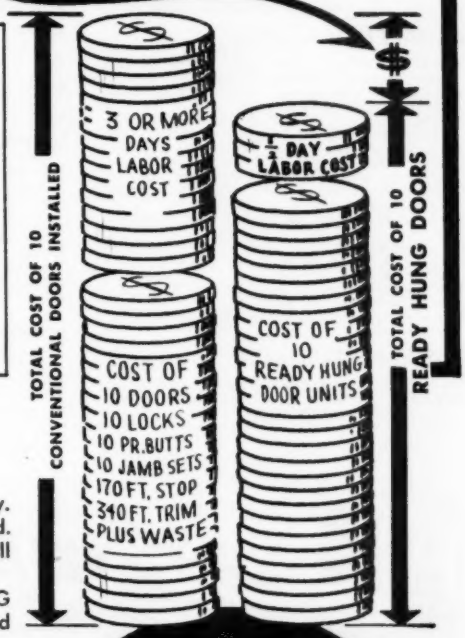
ANY CARPENTER CAN INSTALL A **READY HUNG DOOR** IN 20 MINUTES OR LESS

COMPARE COSTS

ON A HOUSE WITH 10 DOORS

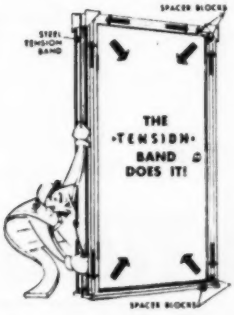
The SAVING is in the LABOR of INSTALLATION





SLIP THE HALVES TOGETHER IN THE OPENING AND NAIL IT TO THE HOUSE

- Fasteners on mitre joints in the trim keep mitres tight indefinitely.
- Doors conform to the Commercial Standard for the style used. Units are furnished left and right, with 1⅜" inside doors in all standard sizes.
- Butts or hinges are 3½ x 3½, full mortise type. READY HUNG DOOR units are completely assembled with all hardware installed except door knobs.
- The READY HUNG DOOR manufacturer in your territory carries in stock standard units with the trim pattern, specie, and hardware popular in your area.
- Look identical to conventional doors when installed.



CRATED FOR DELIVERY IN PERFECT CONDITION

Tension in the steel band exerts equalized pressure (indicated by the arrows) at the corners to draw the frame in tight contact with the rigid door. Frame joints and mitres are therefore rigidly held square and tight by the door itself.

Spacer blocks between the door and frame serve a dual purpose: (1) They block the frame around the door during shipment, and, (2) Are used to maintain proper door clearances while the door is being installed. Faces are protected by cardboard when shipped by common carrier.

FORM NO. 21454-1

*Look for this Trade Mark**

Ready Hung DOORS

PAT. NO. 2489029
*TD. MK. REG. U. S. PAT. OFF.

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NEW YORK, N. Y.
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SAN ANTONIO, TEXAS
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Heller (W C) & Co 1050 Bryant Montpelier Ohio
Johnswood Co 13833 S Indiana Chicago 27 Ill
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich
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Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
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FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
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NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
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Southern SCREW COMPANY
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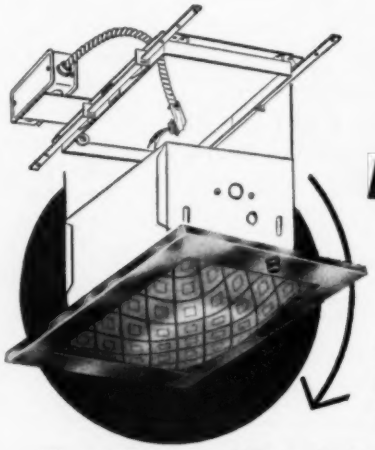

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Pull "R", "T" or "TW" wire directly into J-box.
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Northwest Cedar Prods Ltd Foot of Kerr Rd Vancouver BC Canada
Olympia Shingle Co Olympia Wash
Olympic Stained Prods Co 1118 Leary Way Seattle Wash
Pacific Timber Co Everett Wash
Packwood Shingle Co Packwood Wash
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Peters Shingle Co Chehalis Wash
Phoenix Shingle Co Seattle Wash
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Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
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CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio
Edwards Mfg Co 5th & Butler Cincinnati Ohio
Gary-Pioneer Steel Corp Gary Ind
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
Southern States Iron Roofing Co Siles Av & Louisville Rd Savannah Ga
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Wheeling Corrugating Co Wheeling W Va

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Acrow Inc 510 N Dearborn Chicago Ill
Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind
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Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
O'Morrow (W M) & Co 4509 Firestone Blvd South Gate Cal
Peerless Steel Equipment Co 38 S Dearborn Chicago Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
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Heinley's Movable Shutters 1620 Euclid Santa Monica Cal
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
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Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
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Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis

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National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa
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Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
Protective Prods Co 2701 NE University Av Minneapolis 18 Minn
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa

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Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston Tex
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
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NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
SUPRADUR CORP OF NEW YORK 122 E 42ND NEW YORK 17 NY
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

SIDING, ASBESTOS-CEMENT, CORRUGATED

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston Tex
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

SIDING, ASPHALT, LAMINATED RIGID

BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

SIDING, ASPHALT, PATTERNED, INSULATING

Amalgamated Roofing Co 6600 S Central Av Chicago 38 Ill
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Brixite Mfg Co South Kearney NJ
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Exiner (Alexander) Co Merchandise Mart Chicago 54 Ill
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
Keystone Asphalt Prods Co 101 E Ontario Chicago Ill
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Lehon Co 4425 S Oakley Av Chicago 9 Ill
Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind
Nelson (B F) Mfg Co 401 NE Main Minneapolis Minn
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Protective Prods Co 2701 NE University Av Minneapolis 18 Minn
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Tamko Asphalt Prods Inc 601 N High Joplin Mo
Texas Co 135 E 42nd New York 17 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Weatherpanel Sidings Inc 285 Chandler Buffalo 7 NY

SIDING, HARDBOARD

Buffalo Mfg Corp 150 Pine Grays Lake Ill
Forest Fiber Prods Corp Box 68 Forest Grove Ore
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL
Meadows (W R) Inc 2 Kimball Elgin Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

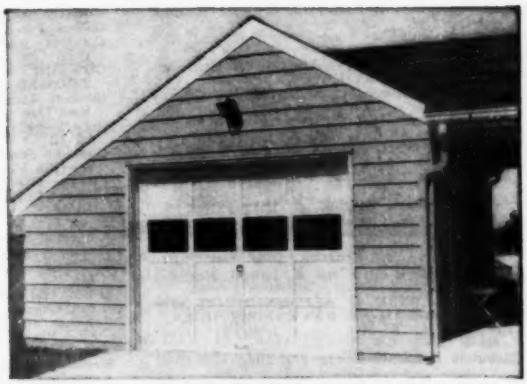
SIDING, IRON & STEEL

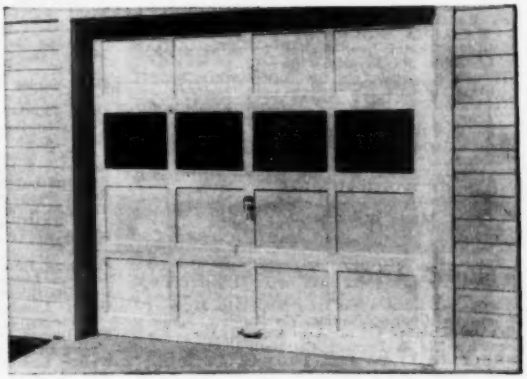
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Ill
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Armco Steel Corp 703 Curtis Middletown Ohio
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal

Your lumber or building material dealer is headquarters for the

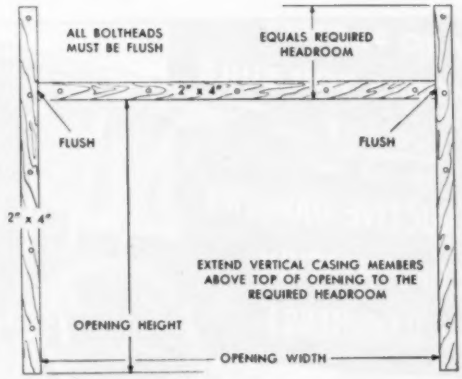
Sheffield

OVERHEAD DOOR

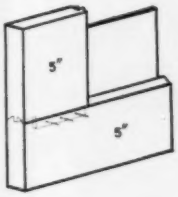




BUILDER DATA ON SHEFFIELD DOORS



PREPARING OPENING



DOOR SECTION CONSTRUCTION

WEATHER-TIGHT CLOSING

SIZES: The Sheffield Door is available in 8 x 7, 9 x 7 and 16 x 7 sizes with slight variations possible.

SPACE REQUIREMENTS—STANDARD:

Headroom—14" (12¼" Min.)
Sideroom—3½" Center Post—7"
Backroom—Door ht. plus 14" (12" Min.)

HARDWARE: By Barber-Colman Company.

DOOR SECTIONS: Rails and stiles are best quality grade Douglas Fir Millwork. All joints are mortise tenoned, glued and steel pinned for reinforcing. Panels are top-grade (AB) Douglas Fir Exterior Plywood. Interlocking rabbet seals the sections when closed.

FEATURES AND GENERAL DESCRIPTION: The Sheffield is a low-priced residential garage door with high-priced features. Track design for wedge-tight closing with easy-operating heavy-duty ball bearing rollers. Self-latching on both sides of door with well-designed chromium-plated handle and lock.

See your lumber or building material dealer or write

SHEFFIELD DOORS, INC., SHEFFIELD, ILLINOIS, DEPT. F44

Continental Steel Corp 1109 S Main Kokomo Ind
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Fries & Son Steel Construction & Engineering Co Covington Ky
Granite City Steel Co 20th & Madison Granite City Ill
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Macomber Inc 1925 Tenth Canton Ohio
Mid States Steel & Wire Co Crawfordsville Ind
Newport Steel Corp 9th & Lowell Newport Ky
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM PL DAVENPORT 10WA
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga
Tennessee Coal & Iron Div United States Steel Corp Fairfield Ala
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Tiffin Art Metal Co Tiffin 16 Ohio
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
UNITED STEEL FABRICATORS INC 333 GASCHE WOOSTER OHIO
Wheeling Corrugating Co Wheeling W Va
Wheeling Steel Corp Wheeling W Va

SIDING, LOG

Abbot Fox Lumber Co Iron Mountain Mich
Anaconda Copper Mining Co Bonner Mont
Bradley Lumber Co of Ark Warren Ark
Brown's Tie & Lumber Co McCall Idaho
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN
Canadian Western Lumber Co Ltd 15 King Edward Av New Westminster BC Canada
Christiansen (C M) Phelps Wis
Collins Pondosa Lumber Co Pondosa Ore
Comfort (George N) Lumber Co Cleveland Ohio
CONNOR LUMBER & LAND CO 31 THOMAS WAUSAU WIS
Contact Lumber Co 719 Corbett Bldg Portland Ore
Cook County Lumber Co 200 E 130th Chicago 28 Ill
Cummer Sons Cypress Co Barnett Bldg Jacksonville Fla
Firpine Prods Co Box 546 Oswego Ore
Fleishel Lumber Co 4243 Duncan Av St Louis 10 Mo
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Goodman Lumber Co Goodman Wis
Hill-Behan Lumber Co 6515 Page St Louis Mo
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore
Kennedy (J G) Lumber Co Seattle 1 Wash
Kent Lumber Co San Francisco 4 Cal
Kinzua Pine Mills Co Kinzua Ore
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash
Michigan Maple Block Co Petoskey Mich
Miller (E C) Cedar Lumber Co Aberdeen Wash
New Mexico Timber Co Box 988 Albuquerque NM
Ozan Lumber Co Prescott Ark
Pickering Lumber Corp Standard Cal
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill
Redwood Sales Co San Francisco 4 Cal
Rosboro Lumber Co Springfield Ore
Rustic Furniture Co Inc Williamstown NJ
ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA WASH
Soderberg (Carl E) Lumber Co Spokane 8 Wash
Southern Pine Lumber Co Texarkana Tex
Sullivan Lumber Co Portland Ore
Unadilla Silo Co Unadilla NY
Union Lumber Co 620 Market Bldg San Francisco 4 Cal
Van Deinse Lumber Sales Corp Box 704 Eugene Ore
Walton Lumber Co Everett Wash
Warren-Lamb Lumber Co Rapid City SD
WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN
Wilson (A K) Lumber Co Box 150 Compton Cal
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn
Wood Lumber Co Birmingham Ala

SIDING PLASTIC, PATTERNED, INSULATING

Insel-Plastics Inc 2120 W 138th Blue Island Ill

SIDING, PLYWOOD

Aetna Plywood & Veneer Co 1731 N Elston Chicago 22 Ill
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich
OLYMPIC STAINED PRODS CO 1118 LEARY WAY SEATTLE WASH
Plytex Corp 1731 Elston Av Chicago 22 Ill
US MENGEL PLYWOODS INC BOX 1612 LOUISVILLE 1 KY
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

SIDING, UNDERLINER, INSULATING, BLANKET

Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
Meadows (W R) Inc 2 Kimball Elgin Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

SIDING, WOOD FIBER, INSULATING

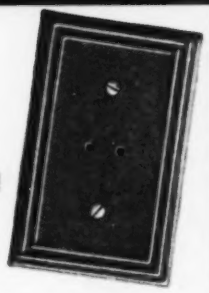
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Thermobond Distributors Inc 820 W Wilbeth Rd Akron 14 Ohio
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

When Your Clients Ask For T V Sockets

Specify and Install

MOSLEY

TV LEAD-IN WALL SOCKETS!



- Made for television!
- Low cost!
- Flush mount in almost any type wall!
- Available in types for every installation requirement!

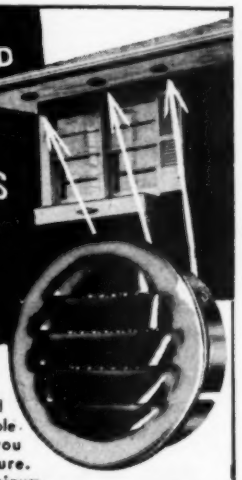
MOSLEY Cat. F-1PK TV Wall Socket for single lead-in. Supplied with attractive ivory or brown face plate, mating plug and instructions. List Price, only $1.95.

Other MOSLEY TV WIRING ACCESSORIES include: MOSLEY TV Conduit, Plaster Rings, Roof and Wall Lead-in Entrance Devices, 3-Way Antenna Switches, 2-Set Couplers, etc.

Available at Radio and Television Parts Distributors, coast-to-coast. Write for name of nearest supplier, free catalog and booklet "How Builders Fit Into The TV Picture."

MOSLEY ELECTRONICS, INC.
8622 St. Charles Rock Road St. Louis 14, Missouri

HOW TO PROTECT THE HOMES YOU BUILD FOR LIFE . . . against the DESTRUCTIVE DANGERS of CONDENSATION and DAMPNESS!



In just a few minutes, at negligible cost, you can install Midget Louvers on soffits, gable ends, dormers, eaves or you face the menace of moisture. These inexpensive all-aluminum ventilating units are your fastest, cheapest, surest *permanent protection.* They will prevent the accumulation of heat and condensation . . . virtually eliminate paint blistering . . . combat rot . . . maintain the efficiency of insulation. Made in 7 sizes (1" to 6") and 2 styles (with and without rain deflectors — both with insect screens).

WRITE for full information.

Quick and easy to install. Just drill a hole and push in place. No nails or screws needed.

"A House That Breathes is a Better House"
The *aluminum* louver is the original louver.
Don't accept "second best" substitutes!

MIDGET LOUVER CO.
6 WALL STREET • NORWALK, CONN.

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Allen (W D) Mfg Co 566 W Lake Chicago Ill
Auto Sign Display Co 1911 Pine St Louis Mo
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Enamel Prods Co Korok Div & Tepco Div Eddy Rd & Taft Av Cleveland 8 Ohio
Engineers Plywood Prods Co Box 1326 Tacoma Wash
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Flexlume Corp 1464 Main Buffalo 9 NY
Gensco Tool Div 1830 N Kostner Av Chicago 39 Ill
Johnston Glass Co Inc Hartford City Ind
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

Nu-ART NUMBERS & LETTERS FOR SIGNS OF ALL KINDS!
See Pages 14-17
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HARDWARE & LUMBER DEALERS
MACKLANBURG-DUNCAN CO.
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Ready-Made Sign Co Inc 117 North New York NY
Reflecto Letters Inc 411 E 101st New York 29 NY
Renco 4372 W Ogden Av Chicago 23 Ill
Seaporcel Metals Inc Borden Av & Dutchkills Long Island NY
Standard Bronze Co 179 W 5th Bayonne 20 NJ
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio
Tennessee Enamel Mfg Co 4104 Park Av Nashville Tenn
Thomas & Associates Inc Minneapolis 11 Minn
Tiffin Art Metal Co Tiffin 16 Ohio
Turner Brass Wks 821 Park Av Sycamore Ill
Universal Major Electric Appliance Co Box 119 Lima Ohio
Watson Co 1443 Main Buffalo 9 NY
Whitehall Metal Studios 469 E Ohio Chicago Ill

SILICON CARBIDE GRAIN

BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Carborundum Co Buffalo Av Niagara Falls NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Safe Tread Co Inc 30 Vesey New York 7 NY

SILOS

Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill
Caldwell (W E) Co 2320 Brook Louisville 8 Ky
Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
Economy Silo & Mfg Co Frederick Md
Fairfield Engineering Co 324 Barnhart Marion Ohio
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo
Globe Silos Unadilla NY
Harder Silo Co Inc Cobleskill NY
Illinois Wire & Mfg Co Box 1396 Joliet Ill
Independent Silo Co 752 Vandalia St Paul Minn
Johnson & Carlson 848 Eastman Chicago 22 Ill
Johnson (C S) Co Box 71 Champaign Ill
Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich
Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis
Marietta Concrete Corp 1949 Register Av Marietta Ohio
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Neb
Rose Equipment Co Warder St Springfield Ohio
Schlichter (E F) Co Inc 16 S Broad Philadelphia 2 Pa
Twin City Tank Silo & Specialty Co 38th Av NE & Fifth Minneapolis Minn
Unadilla Silo Co Unadilla NY
Willamette Valley Lumber Co Dallas Ore

SILOS, PORTABLE

RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
ROWE MFG CO 614 W THIRD GALESBURG ILL

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ALLIANCEWARE INC BOX 809 ALLIANCE OHIO
Ames Metal Moulding Co 225 E 144th New York 51 NY
B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO
BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH
Decorite Inc 2116 Peachtree Atlanta Ga
Ford Metal Moulding Corp 27-01 Bridge Plaza N Long Island City 1 NY
Kinkead Industries Inc 5860 N Pulaski Chicago 30 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

TWIST-ON SINK FRAMES SAVE TIME AND MONEY!
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Trimedge Inc 4021 Mahoning Youngstown 1 Ohio
Wooster Prods Inc Loehr & Wyant Wooster Ohio
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

Kroger supermarket in Glendale, Missouri.
Architect: Cay Weinel, St. Louis, Missouri.
Contractor: White Development Corporation, St. Louis, Missouri.

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...with lightweight, versatile

LACLEDE STEEL JOISTS

Fast placing and erection . . . combined with modern design and strength make Laclede Steel Joists the answer to today's needs in roof construction.

Specify these LACLEDE Products:
Multi-Rib Reinforcing Bars • Steel Pipe • Welded Wire Fabric • Form and Tie Wire • Spirals • Conduit Corrugated Steel Centering

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Producers of Steel
LACLEDE STEEL COMPANY
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ALLIANCEWARE INC BOX 809 ALLIANCE OHIO
AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
Boro Wood Co Maspeth LI NY
BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH
CAPITOL KITCHENS 615 E 18T AV ROSELLE NJ
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Coppes Inc Nappanee Ind
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
ELJER CO FORD CITY PA
ELKAY MFG CO 1874 54TH AV CHICAGO 50 ILL
Enamel Prods Co Korok Div & Tepco Div Eddy Rd & Taft Av Cleveland 8 Ohio
Excel Metal Cabinet Co Inc 1938 Johnson Jamestown NY
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
IXL Furniture Co Goshen Ind
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
KOHLER CO 44 HIGH KOHLER WIS
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Midwest Mfg Co Galesburg Ill
MULLINS MFG CORP UNIVERSITY ST WARREN OHIO
Murray Corp of America 1900 S Washington Scranton 2 Pa
MUTSCHLER BROS CO 302 S MADISON NAPPANEE IND
Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa
Paragon Utilities 50 Van Dam Brooklyn NY
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa
Shirley Corp 330 E St Joseph Indianapolis 2 Ind
Toledo Desk & Fixture Co 1020 Ford Rd Maumee Ohio
TRACY KITCHENS DIV EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA

SINKS, MONEL OR STAINLESS STEEL

Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
ELKAY MFG CO 1874 S 54TH AV CHICAGO 50 ILL
Excel Metal Cabinet Co 1938 Johnson Jamestown NY
Geneva Modern Kitchens 201 S 8th Geneva Ill
GERBER PLUMBING FIXTURES 232 N CLARK CHICAGO 1 ILL
HARRISON STEEL CABINET CO 4718 W 5TH AV CHICAGO 44 ILL
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
Just Mfg Co 9233 King Av Franklin Park Ill
LEGION STAINLESS SINK CORP 21-07 40TH AV LONG ISLAND CITY 1 NY
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Midwest Mfg Co Galesburg Ill
Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa
Paragon Utilities Corp 50 Van Dam Brooklyn NY
Richmond Engineering Co 7th & Hospital Richmond Va
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa
TRACY KITCHENS DIV EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA
Zahner Mfg Co 1213 Walnut Kansas City Mo

SINKS, PORCELAIN ENAMEL

ALLIANCEWARE INC BOX 809 ALLIANCE OHIO
AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
ELJER CO FORD CITY PA
Enamel Prods Co Korok Div & Tepco Div Eddy Rd & Taft Av Cleveland 8 Ohio
General Ceramics & Steatite Corp Sanitary Ware Div 21 Crows Mill Rd Keasbey NJ
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL
General Porcelain Enameling Mfg Co 2700 N Karlov Av Chicago 39 Ill
Humphreys Mfg Co 201 E Fifth Mansfield Ohio
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
KOHLER CO 44 HIGH KOHLER WIS
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Midwest Mfg Co Galesburg Ill
MULLINS MFG CORP UNIVERSITY ST WARREN OHIO
Murray Corp of America 1900 S Washington Scranton 2 Pa
Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa
Paragon Utilities Corp 50 Van Dam Brooklyn NY
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa
Shirley Corp 330 E St Joseph Indianapolis 2 Ind
Toledo Desk & Fixture Co 1020 Ford Rd Maumee Ohio
TRACY KITCHENS DIV EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA
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AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ

SIZE, WALL

American Varnish Co 1140 N Branch Chicago 22 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Borden Co Chemical Div 350 Madison Av New York 17 NY
Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio
Commercial Paste Buttles at Michigan Columbus 8 Ohio
Consumers Glue Co 1515 Hadley St Louis 6 Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Elliott Paint & Varnish Co 4523 W 5th Av Chicago 24 Ill
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Farwell Ozmun Kirk & Co 108 Fairfield Av W St Paul 1 Minn
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo
LePage's Inc 40 Swanson Gloucester 41 Mass
Lowe Bros Co 436 E 3rd Dayton 2 Ohio
Miner-Hillard Milling Co 826 Second National Bank Bldg Wilkes Barre Pa
Monsanto Chemical Co Western Div 911 Western Av Seattle 4 Wash
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY
Patent Cereals Co Bradford St Geneva NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pyramid Process Co Inc East Rochester NY
Reardon Co 7501 Page Av St Louis 14 Mo
Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
Sisk (R J) Co New London Conn
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Vita-Var Corp 10 Commerce Ct Newark NJ
Wesco Waterpaints Inc Maple St Matteson Ill

SKIDS & PALLETS

Albany Corrugated Container Corp 481 S Saratoga Cohoes NY
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Carr & Moehl Co 301 SW 9th Des Moines 9 Iowa
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
Gary Pioneer Steel Corp Gary Ind
GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH
Lansing Co 603 N Cedar Lansing 3 Mich
Lewis-Shepard Prods Inc 125 Walnut Watertown 72 Mass
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Service Caster & Truck Co 540 N Brownwood Av Albion Mich
West Bend Equipment Corp 299 S Water West Bend Wis

SKYLIGHTS

Allied Synthetic Co 4654 DeSoto San Diego 9 Cal
ALSYNITE CO OF AMERICA 4654 DESOTO SAN DIEGO 9 CAL
American Sheet Metal Wks 325 N Alexander New Orleans La
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Corrulux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex
Gensco Tool Div 1830 N Kostner Av Chicago 39 Ill
Gichner Inc 1900 Kendall NE Washington 2 DC
International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
KIMBLE GLASS CO BOX 1035 TOLEDO 1 OHIO
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
Plymold Co 2707 Tulare Av Burbank Cal
RESOLITE CORP ZELIENOPLE PA
Richards (J Merrill) 25 Huntington Av Boston 16 Mass
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN
Stewart Iron Wks 1551 Stewart Block Cincinnati 1 Ohio
Tiffin Art Metal Co Tiffin 16 Ohio
Van Noorden (E) Co 100 Magazine Boston 19 Mass
Wasco Flashing Co 87 Fawcett Cambridge Mass
Willis Steel Corp Box 149 Galesburg Ill

SLATE

Conco Building Prods Inc Box 111 Mendota Ill
Evergreen Slate Co Inc 9 Pine Granville NY
North Bangor Slate Co Bangor Pa
Structural Slate Co East PenArgyle Pa

SLIDES, EXTENSION DRAWER

Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich

SNIPS, TINNER'S

Atlas Shear Co Bridgeport Conn
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn
Henkel-Clauss Co 319 S Arch Fremont Ohio
Kraeuter & Co Inc 581 18th Av Newark NJ
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
P & C Hand Forged Tool Co Portland 22 Ore
Peck Stow & Wilcox Co Mill St Southington Conn
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ

SOCKETS, STUDDING

Sterling Foundry Co Box 457 Sterling Ill
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

SOCKETS, WIRE ROPE

American Cable Div American Chain & Cable Co Inc E Ross & Thomas Wilkes-Barre Pa
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Eagles Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
Roeblings (John A) Sons Corp Broad & Neroni Trenton 2 NJ
Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio

SOFTENERS, PUTTY

Barrett (William L) 34 School Bristol Conn
Fletcher-Terry Co 437 South St Forestville Conn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Glaziers' Tool Mfg Corp 611 W Adams Chicago 6 Ill

Sta-Warm Electric Co 553 N Chestnut Ravenna Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Sullivan Co 212 E Trigg Memphis 2 Tenn

SOFTENERS, WATER

American Water Softener Co 4th & Lehigh Av Philadelphia 33 Pa
Bard Mfg Co Bryan Ohio
Calgon Inc 323 Fourth Av Pittsburgh Pa
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Culligan Inc 1657 Sherman Av Northbrook Ill
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio
Elgin Softener Corp 142 N Grove Av Elgin Ill
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Permutit Co 330 W 42nd New York 36 NY
Reynolds-Shaffer Co 12100 Cloverdale Detroit 4 Mich
RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY
Solventol Chemical Prods Inc 15828 Second Av Detroit Mich
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal
Worthington Corp S Second St Plainfield NJ

SOLDER & MATERIALS

Belmont Smelting & Refining Wks 330 Belmont Av Brooklyn 7 NY
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Division Lead Co 7742 W 61st Pl Summit Ill
Hanchett Mfg Co 906 N State Big Rapids Mich
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Kester Solder Co 4201 W Wrightwood Av Chicago 39 Ill
Lake Chemical Co 3052 N Carroll Chicago 6 Ill
Lenk Mfg Co 30 Cummington Boston 15 Mass
Lux Co Inc 315 W Franklin Elkhart 2 Ind
National Lead Co 111 Broadway New York 6 NY
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio
Wall (P) Mfg Co Grove City Pa
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich

SPACKLING COMPOUNDS

COLORCRETE INDUSTRIES INC 24TH & OTTAWA HOLLAND 1 MICH
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY
National Chemical & Mfg Co 3617 S May Chicago 9 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Reardon Co 7501 Page Av St Louis 14 Mo
Rutland Fire Clay Co Curtis Av Rutland Vt
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Webb Prods Co 216 S "G" San Bernardino Cal
Wesco Waterpaints Inc Maple St Matteson Ill

SPIKES, CUT

Bethlehem Steel Co 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Bldg Denver 2 Colo
Inland Steel Co 38 S Dearborn Chicago 3 Ill
Wheeling Corrugating Co Wheeling W Va
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

SPLICERS, WIRE & FENCE

AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO
Crescent Tool Co 200 Harrison Jamestown NY
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill

SPREADERS, FERTILIZER, LAWN & GARDEN

California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal
Doggett-Pfeil Co Springfield NJ
Germain Seed & Plant Co 747 Terminal Los Angeles Cal
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Masters Planter Co 350 North Benton Harbor Mich
Midland Co 1200 W Rawson Av South Milwaukee Wis

SPRINKLERS, AUTOMATIC SYSTEMS

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill
EVERSPRAY DIV 2001-09 W CARROLL AV CHICAGO 12 ILL
Robbins Lightning Protection Co 124 E Second Maryville Mo
Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass

SPRINKLERS, LAWN

Adams Co Box 268 Dubuque Iowa
Adel Precision Prods Corp Van Owen & Cleon Burbank Cal
Allen (W D) Mfg Co 566 W Lake Chicago 6 Ill
Columbus Plastic Prods Inc 1625 W Mound Columbus 4 Ohio
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill
EVERSPRAY DIV 2001-09 W CARROLL AV CHICAGO 12 ILL
Keystone Brass & Rubber Co Broad & Lehigh Av Philadelphia 32 Pa
Melnor Metal Prods Co Inc 10-4 45th Av Long Island City 1 NY
Scovill Mfg Co 100 Mill Waterbury Conn

SQUARES, CARPENTER'S

Brown & Sharpe Mfg Co 235 Promenade Providence RI
General Hdwe Mfg Co Inc 80 White New York 13 NY
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
SARGENT & CO 45 WATER ST NEW HAVEN CONN
SHARP'S MFG CO BOX 332 SALEM ORE

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Box 332, Dept. 9 Salem, Oregon

STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Swanson Tool Co Oak Lawn Ill
Union Tool Co 48 E River Orange Mass

SQUARES, CARPENTER'S STEEL "T"

Dietzgen (Eugene) Co 2425 N Sheffield Av Chicago Ill
GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO
Keuffel & Esser Co 300 Adams Hoboken NJ
NICHOLLS MFG CO OTTUMWA IOWA
Peck Stow & Wilcox Co Southington Conn
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Southington Hdwe Mfg Co 168 Center Southington Conn
STANLEY WKS 111 ELM NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Union Tool Co 48 E River Orange Mass
Woodmark Industries Inc 4601-A Highway Seven Minneapolis 16 Minn

SQUARES, COMBINATION

Brown & Sharpe Mfg Co 235 Promenade Providence RI
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
Millers Falls Co Wells & Devon Greenfield Mass
Peck Stow & Wilcox Co Southington Conn
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Starrett (L S) Co 101 Crescent Athol Mass
Union Tool Co 48 E River Orange Mass

SQUARES, GLASS CUTTERS'

Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

STAIN, CONCRETE FLOOR

Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Rohloff & Co 918 N Western Av Los Angeles 27 Cal
Smith (J Lee) & Co Inc 19 Jacob New York NY
Sullivan Co 212 Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Vita-Var Corp 10 Commerce Ct Newark NJ
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

STAIN, SHINGLE

Abesto Mfg Corp 131 Wabash Michigan City Ind
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill
American Stained Shingle Co 381 Spruce Columbus 8 Ohio
American Varnish Co 1140 N Branch Chicago 22 Ill
Berry Bros Inc 211 Leib Detroit 7 Mich
Breinig Bros Inc 223 Adams Hoboken NJ
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Canadian Forest Prods Ltd Huntting-Merritt Shingle Div Vancouver 14 BC Canada
Carbolineum Wood Preserving Co 508 W Highland Av Milwaukee 3 Wis
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn
COLONIAL CEDAR CO 600 W NICKERSON SEATTLE 99 WASH
Creo-Dipt Co Inc 936 Oliver North Tonawanda NY
CUPRINOL DIV DARTWORTH INC 56 MAPLE SIMSBURY CONN
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Douglas Fir Wholesalers Inc Marysville Wash
DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Glidden Co Berea Rd at Madison Cleveland Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill

Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros 436 E 3rd Dayton 2 Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio
Minnesota Paint Inc 1101 Third S Minneapolis 15 Minn
Moore (Benjamin) & Co 511 Canal New York 13 NY
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ
O'Brien Corp 101 N Johnson South Bend 21 Ind
Olympic Stained Prods Co 1118 Leary Way Seattle 7 Wash
Parker (Ira) & Sons Oshkosh Wis
Patterson-Sargent Co 1325 38th Cleveland 14 Ohio
Perma Prods Co 5455 Broadway Cleveland 27 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Portland Shingle Co 9036 N Denver Av Portland 3 Ore
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Valentine & Co Inc 11 E 36th New York NY
Vita-Var Corp 10 Commerce Ct Newark NJ
Wadsworth Howland & Co 141 Federal Boston Mass
WEATHERBEST CORP 986 OLIVER NORTH TONAWANDA NY
Wetherill (George D) & Co 113 Arch Philadelphia 6 Pa
Wood Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

STAIN, VARNISH

Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Glidden Co Berea Rd & Madison Cleveland 2 Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Keystone Paint & Varnish Corp 71 Otsego Brooklyn 31 NY
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Lowe Bros Co 436 E Third Dayton 2 Ohio
McCloskey Varnish Co 7600 State Rd Philadelphia 36 Pa
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff & Grand Trunk Ry Detroit 11 Mich
Valentine & Co Inc 11 E 36th New York NY
Vita-Var Corp 10 Commerce Ct Newark NJ

STAIN, WOOD, OIL

Abesto Mfg Corp 131 Wabash Michigan City Ind
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Breinig Bros Inc 223 Adams Hoboken NJ
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Chicago Bronze & Color Wks 2639 W Grand Av Chicago 12 Ill
Chicago Paints Inc 4500 W 14th Chicago 23 Ill
Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill
Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa
Linseed Oil Prods 355 Del Monte Pasadena Cal
Lowe Bros Co 436 E Third Dayton 2 Ohio
Marietta Paint & Color Co Green & Acme Sts Marietta Ohio
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Minnesota Paints Inc 1101 3rd S Minneapolis 15 Minn
Minnesota Platon Corp Platon Bldg Pipestone Minn
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Lead Co 111 Broadway New York 6 NY
O'Brien Corp 101 N Johnson South Bend 21 Ind
OLYMPIC STAINED PRODS CO 1118 LEARY WAY SEATTLE 7 WASH
Parker (Ira) & Sons Oshkosh Wis
Perma Prods Co 5455 Broadway Cleveland 27 Ohio
Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
Rockford Paint Mfg Co 200 Sayre Rockford Ill
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
Standard Toch Chemicals Inc 2600 Richmond Ter Staten Island 3 NY
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff & Grand Truck Ry Detroit 11 Mich
Vita-Var Corp 10 Commerce Ct Newark NJ
WEATHERBEST CORP 986 OLIVER NORTH TONAWANDA NY

STAIRS, STEEL

Artcraft Ornamental Iron Co 724 E Hudson Columbus Ohio
Badger Wire & Iron Wks Inc 2929 W Cleveland Av Milwaukee 7 Wis
CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Decatur Iron & Steel Co 2nd St W Decatur Ala
Fiske (J W) Iron Wks 78 Park Pl New York 7 NY
GENERAL BRONZE CORP STEWART AV LONG ISLAND CITY NY
Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich
Harris Inc 200 E Long Columbus Ohio
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
International Steel Co 1321 Edgar Evansville 7 Ind
Logan Co 201 Cabel Louisville 6 Ky
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE IND
Metal Crafters E Av at 18th NE Cedar Rapids Iowa
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Smith (F P) Wire & Iron Wks 2340 N Clybourn Av Chicago 14 Ill
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio

STAIRS, WOOD, MATERIALS FOR

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
Bradley Lbr Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN
Carpenter Oak Flooring Co & Hightower Box & Tank Co 906 N 40th Box 1449 Birmingham Ala
Cole Mfg Co Box 2657 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Giustina Bros Lumber Co Box 989 Eugene Ore
Goshen Sash & Door Co E Purl Goshen Ind
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1100 S Vandeventer Av St Louis 10 Mo
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Marquart Millwork Co 50 Ceape Oshkosh Wis
Memphis Oak Flooring Co Memphis Tenn
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Radford & Sanders Inc 612 W Pratt Baltimore Md
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa
Southern Mill & Mfg Co Tulsa Okla
Spokane Sash & Door Co Spokane Wash
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va

STAIRWAY, DISAPPEARING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Ladder Co 5509 NW 7th Av Miami 38 Ill
BESSLER DISAPPEARING STAIRWAY CO 1900 E MARKET AKRON OHIO
CRAIG WOOD PRODS CO BRENNAN RD COLUMBUS GA
EZ-WAY SALES INC ST PAUL PARK MINN
Farley & Loetscher Mfg Co Dubuque Iowa
FOLDAWAY STAIRWAY CO INC 813 SEABOARD PORTSMOUTH VA
Goshen Sash & Door Co E Purl Goshen Ind
Huntington Industries Inc 2368 Prospect Memphis Tenn
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Marco Stairways 1695 N Cleveland Av St Paul 8 Minn
Marschke Co Marco Stairways 1695 N Cleveland Av St Paul 8 Minn
Mott Bros Co 907 S Main Rockford Ill
Newark Ladder & Bracket Co 17 Walnut Av Clark (Rahway) NJ
PRECISION PARTS CORP 400 N FIRST NASHVILLE 7 TENN

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400 N. First St. Nashville 7, Tenn.

Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
Roach & Musser Co Muscatine Iowa
Wel-Bilt Prods Co Box 95 Memphis 1 Tenn

STAKES, SURVEYORS

Brooks-Scanlon Inc Bend Ore
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH

STAPLERS & STAPLES

Acme Staple Co 1643 Haddon Av Camden 3 NJ
Acme Steel Co 2840 Archer Av Chicago 8 Ill
ARROW FASTENER CO INC 1 JUNIUS BROOKLYN 12 NY
Atlas Tack Corp Fairhaven Mass
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co Inc 701 E Third Bethlehem Pa
Bostitch Inc 1101 Mechanic Westerly RI
Brower Mfg Co Box 251 Quincy Ill
Burgess Fastening Co 1220 W 9th Cleveland 13 Ohio
Consolidated Wire Specialties Co 150 Broadway New York NY
Continental Steel Corp Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Crofoot Mfg Co 217 Evergreen Mount Prospect Ill
FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL
Fir-Tex Insulating Board Co U S Nat'l Bank Bldg Portland Ore
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
HANSEN (A L) MFG CO 5037 N RAVENSWOOD AV CHICAGO 40 ILL
Heller Co 2135 Superior Av Cleveland 14 Ohio
Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio
Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Larson (Charles O) Co Sterling Ill
Markwell Mfg Co 200 Hudson New York 13 NY

National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
Saranac Machine Co Benton Harbor Mich
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Shelton Tack Co 103 Canal Shelton Conn
SPOTNAILS INC 1527 LYONS EVANSTON ILL
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

STAPLES, METAL FURRING OR LATH

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Couch (S H) Co Inc 1 Arlington North Quincy Mass
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio

STAYS, FENCE

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL

STAYS, WINDOW

Air-Tite Window Stay Co Chicopee Mass
Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn
Noiseless Window Spring Co 307 5th Av New York 16 NY
Rockford Sash Holder Inc 203 S Main Rockford Ill
Vikre (J N) Co Inc 3016 14th Av S Minneapolis Minn

STEEL, CONCRETE REINFORCING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Dietrich Bros Inc 2700 Loch Haven Rd Baltimore Md
Inland Steel Co 38 S Dearborn Chicago 3 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Steel Co 1321 Edgar Evansville Ind
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Northwestern Steel & Wire Co Sterling Ill
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 4 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Soule Steel Co 1750 Army San Francisco 24 Cal
STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
Webrib Steel Corp 120 Broadway New York 5 NY
Wheeling Corrugating Co Wheeling W Va
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

STEEL, MASONRY WALL REINFORCING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Carter-Waters Corp 2440 Pennway Kansas City 8 Mo
CEDAR RAPIDS BLOCK CO DUR-O-WAL DIV 656 12TH AV SW CEDAR RAPIDS IOWA

STEEL STRAPPING

Acme Steel Co 2840 Archer Av Chicago 8 Ill
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
Gerrard Steel Strapping Co 2939 W 47th Chicago Ill
Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY
Paine Co Fullerton & Westgate Rd Addison Ill
Roeblings (John A) Sons Corp Broad & Neroni Trenton 2 NJ
Sharon Steel Co Sharon Pa
Signode Steel Strapping Co 2600 N Western Av Dept 113 ABD Chicago 47 Ill
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
West Leechburg Steel Co Breckenridge Pa

STEEL, STRUCTURAL, MISC. SHAPES, ETC.

Allegheny Ludlum Steel Co Oliver Bldg Pittsburgh 22 Pa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bennett Industries Inc Peotone Ill
Bethlehem Steel Co Inc 701 E Third Bethlehem Pa
Chehalis Brick & Tile Co Chehalis Wash
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Commercial Shearing & Stamping Inc 5767 W 65th Chicago 38 Ill
Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Decatur Iron & Steel Co 2nd St W Decatur Ala
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich
Haven Busch Co 503 Front Av Grand Rapids 4 Mich
Inland Steel Co 38 S Dearborn Chicago 3 Ill
International Steel Co 1321 Edgar Evansville 7 Ind
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
Macomber Inc 1925 Tenth Canton Ohio
Mahon (R C) Co Box 4666 Detroit 34 Mich
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Stran-Steel Div Great Lakes Steel Corp Ecorse 29 Mich
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNSTOWN 1 OHIO
United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa

STOKERS

AIRTEMP DIV CHRYSLER MOTORS 1610 WEBSTER DAYTON 1 OHIO
American Engineering Co Kensington Sta Philadelphia 25 Pa
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind
Anchor Stove & Range Co New Albany Ind
Auburn Foundry Inc Auburn Ind
Brownell Co 321 N Findley Dayton 1 Ohio
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Econ-O-Col Stoker Div Cotta Transmission Co 2340 11th Rockford Ill
Eddy Stoker Corp 4713-19 W North Av Chicago Ill
Electric Furnace-Man Inc Emmaus Pa
Erie City Iron Wks Erie Pa
Excelsior Stove & Mfg Co 534 S Front Quincy Ill
Hershey Machine & Foundry Co 1940 Miller Manheim Pa
Holcomb & Hoke Mfg Co 1545 Van Buren Indianapolis Ind
Holland Furnace Co Holland Mich
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill
IRON FIREMAN MFG CO 3239 W 106TH CLEVELAND 11 OHIO
Kol-Master Corp Oregon Ill
Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky
Pocahontas Fuel Co Inc 1 Broadway New York NY
Red Jacket Coal Sales Co 115 E Rich Columbus 15 Ohio
Sinker-Davis Co 230 S Missouri Indianapolis Ind
Smith (A O) Corp 3533 N 27th Milwaukee 1 Wis
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
Stokol Stoker Co Inc Indianapolis Ind
US Machine Corp Lebanon Ind
Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Will-Burt Co 12 Ray Orrville Ohio
Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

STONE, CRAB ORCHARD

Conco Bldg Prods Inc Box 111 Mendota Ill
Crab Orchard Stone Co Box 238 Crossville Tenn
Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn
Turner Bros Stone Co Box 27 Crossville Tenn

STONE, GRANITE

Fletcher (H E) Co Box 448 West Chelmsford 2 Mass
North Carolina Granite Corp Mount Airy NC
Vermont Marble Co Proctor Vt

STONE, LANNON

Conco Bldg Prods Inc Mendota Ill
Fond du Lac Stone Co Inc Hwy 41 S Box 148 Fond du Lac Wis
Halquist Lannon Stone Co Sussex Wis
Hrobsky Lannon Stone Service Lyons Wis

STONE, LIMESTONE

Babcock Co Kasota Minn
Biesanz Stone Co Winona Minn
Bloomington Hoosier Stone Co Inc Box 116 S Rogers St Bloomington Ind
Bloomington Limestone Co 900 S Walnut Bloomington Ind
Conco Bldg Prods Inc Mendota Ill
Corson (G & W H) Inc Plymouth Meeting Pa
Empire Stone Co Bloomington Ind
Fluck Cut Stone Co Bloomington Ind
Fond du Lac Stone Co Inc Hwy 41 S Box 148 Fond du Lac Wis
Carl Furst Co Box 469 Bedford Ind
Georgia Marble Co Tate Ga
Hoadley (B G) Quarries Co Bloomington Ind
Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind
Mankato Stone Co Mankato Minn
Menke Stone & Lime Co Quincy Ill
Monon Stone Co Bloomington Ind
National Lime & Stone Co First National Bank Bldg Findlay Ohio
Oolitic (Victor) Stone Co Bloomington Ind
Quality Limestone Co 9835 W Lisbon Av Wauwatosa Wis
San-Tex Stone Quarry Inc 4130 Broadway San Antonio Tex
Taylor Stone Co McDermott Ohio
Texas Quarries Inc Box 91 Austin Tex
Woolery Stone Co Inc Box 49 Bloomington Ind

STONE, MARBLE

Bauer (Frank P) Marble Co 4332 W Melrose Chicago Ill
Carthage Marble Corp Carthage Mo
Georgia Marble Co Tate Ga
Vermont Marble Co Proctor Vt

STONE, PATCHING COMPOUNDS

Dugan Stone Patcher & Stain Prods 8115 Kenwood Av Chicago 19 Ill
Reardon Co 7501 Page Av St Louis 14 Mo

STONE, PRECAST, SPLIT

Vermont Marble Co Proctor Vt
"Split Rock" Machines & Process 13201 W Burleigh Milwaukee Wis

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Garner Stone Co 7320 Paris Av S Birmingham Ala
Weaver (C E) Stone Co Box 96 Reisterstown Md

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Briar Hill Stone Co Glenmont Ohio
Cleveland Quarries Co Amherst Ohio
Grand Canyon Quarries Inc Box 112 Ash Fork Ariz
Jacobson Evans Stone Co Inc 3232 E 31st Tulsa Okla
Pearl Sandstone Co RR 3 Fresno Ohio
Summers Quarry Box 124 Lyons Colo
Taylor Stone Co McDermott Ohio
Western States Stone Co Box 312 Santa Clara Cal

STONE, SYNTHETIC

Formstone Co 200 S Franklintown Rd Baltimore 23 Md
Perma Stone Co 719 E Hudson Columbus Ohio
Stedfast Stone & Brick Corp 2613 N 47th Milwaukee 10 Wis
Stonekote Corp 729 N 23rd Milwaukee 3 Wis

STORE LAYOUT SERVICES

Baird (J Malcolm) Architectural Designer Mound Minn
Gensco Tools 1830 N Kostner Av Chicago 39 Ill
Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Sitka Spruce Lumber & Mfg Co 2500 Genesee Box 295 Kansas City 8 Mo
Stanford Wood Prods Co Stanford Ky

STRAIGHTEDGES

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Brown & Sharpe Mfg Co 235 Promenade Providence RI
Dietzen (Eugene) Co 2425 N Sheffield Av Chicago 6 Ill
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
Hanchett Mfg Co 906 N State Big Rapids Mich
Hoe (R) & Co Inc 910 E 138th New York 54 NY
Keuffel & Esser Co 300 Adams Hoboken NJ
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
Peerless Level & Tool Co Sterling Ill
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Ridgely Trimmer Co Springfield Ohio
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Starrett (L S) Co 101 Crescent Athol Mass

STRAINERS, EAVE TROUGH

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
METALBESTOS DIV WALLACE (WILLIAM) CO BELMONT CAL
Northwest Metal Prods Inc 55 Spokane Av Seattle 4 Wash
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
US Cistern Filter Mfg Co Bloomington Ill
Wheeling Corrugating Co Wheeling W Va
Zurn (J A) Mfg Co Erie Pa

STRAINERS, SEWER PIPE

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Evans Pipe Co Uhrichsville Ohio
MAJESTIC CO HALL ST HUNTINGTON IND
Robinson Clay Prods Co 2nd National Bank Bldg Akron 9 Ohio
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio
Vestal Mfg Co Box 152 Sweetwater Tenn

STRAPPERS

Acme Steel Co 2840 Archer Av Chicago 8 Ill
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
Doig (W S) Inc 894 Manhattan Av Brooklyn NY
Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
Gerrard Steel Strapping Co 2915 W 47th Chicago 32 Ill
Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY
Klein Mfg Co Burlington Iowa
Sharon Steel Co Sharon Pa
Signode Steel Strapping Co 2600 N Western Av Dept 113 ABD Chicago 47 Ill

STRIPS, CORRUGATED FILLER

Fabricated Prods Co Water St West Newton Pa
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

STRIPS, DIVIDING

CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
Manhattan Terrazzo Brass Strip Co Inc Willard Rd Box 187 Norwalk Conn

STRIPS, FILLER ASPHALT

Fabricated Prods Co Water St West Newton Pa
Meadows (W R) Inc 2 Kimball Elgin Ill
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

STRIPS, SEALING

Keller Prods Inc 7039 Superior Av Cleveland Ohio
Meadows (W R) Inc 2 Kimball Elgin Ill

STUCCO

Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Kenitex Corp 854 S Robertson Blvd Los Angeles 35 Cal
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
Sullivan Co Box 2606 Memphis 2 Tenn

STUCCO, PRE-MIXED

Blue Diamond Corp 1650 S Alameda Los Angeles Cal
Carolina Perlite Co Box 158 Salisbury NC
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Made-Rite Prods Inc 2410 S 7th St Louis Mo
Pyramid Co 5100 Manchester St Louis 10 Mo
UNITED STATES GYPSUM CO 300 ADAMS CHICAGO 6 ILL

STUCCO RETARDERS

Breinig Bros Inc 223 Adams Hoboken NJ
Tamms Industries Inc 228 N LaSalle Chicago Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

SWEEPERS, INDUSTRIAL MACHINE

Johnson (S C) & Co Inc 1525 Howe Racine Wis
Little Giant Prods Inc 1530 N Adams Peoria 3 Ill
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

SWIMMING POOLS

Landon Inc 5920 Sepulveda Blvd Box 10 Van Nuys Cal

SWITCHES, ELECTRIC

All-Steel Equip Co Inc 245 John Aurora Ill
ARROW-HART & HEGEMAN ELECTRIC CO HARTFORD CONN
Bryant Electric Co 1421 State Bridgeport 2 Conn
BULLDOG-ELECTRIC CO 7610 JOSEPH CAMPAU DETROIT 32 MICH
Cutler-Hammer Inc 201 N 12th Milwaukee 1 Wis
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
Federal Electric Prods Co 50 Paris Newark 5 NJ
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT CONN
GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN
General Switch Corp Roebling & N 9th Brooklyn 11 NY
Hubbell (Harvey) Inc State & Bostwick Av Bridgeport 2 Conn
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
Micro Switch Div Minneapolis-Honeywell Regulator Co 1 E Spring Freeport Ill
MOSLEY ELECTRONICS INC 8622 ST CHARLES ROCK RD ST LOUIS 14 MO
Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal
Soreng Prods Corp Schiller Park Ill
SUPERIOR ELECTRIC CO 83 LAUREL BRISTOL CONN
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

SWITCHES, MERCURY

Bryant Electric Co 1421 State Bridgeport 2 Conn
Micro Switch Div Minneapolis-Honeywell Regulator Co 1 E Spring Freeport Ill
MINNEAPOLIS-HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal

SWITCHES, TIME, AUTOMATIC

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
IRON FIREMAN MFG CO 3239 W 106TH CLEVELAND 11 OHIO
Lyon Rural Electric Co 2075 Moore San Diego 12 Cal
Paragon Electric Co 1606 12th Two Rivers Wis
Soreng Prods Corp Schiller Park Ill
Tork Clock Co Inc 1 Grove Mt Vernon NY

SYSTEMS, GARAGE, GAS REMOVAL

National System of Garage Ventilation Inc 138 W William Decatur Ill

TABLES, DRAFTING

Emrick Inc 2515 Miller Rd Kalamazoo Mich
Hamilton Mfg Co 1316 18th Two Rivers Wis
Keuffel & Esser Co 300 Adams Hoboken NJ
Kingsley Mfg Co 748 E 82nd Cleveland 3 Ohio
Kinzua Pine Mills Co Kinzua Ore
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Post (Frederick) Co 155 E Ohio Chicago Ill
Smith (H E) Co Maume at Harold Adrian Mich
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
Stacor Equipment Corp 768 E New York Av Brooklyn 3 NY
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio

TABLES, SAW

ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill
Sales Service Maching Tool 2363 University Av St Paul 4 Minn

TABLES, STEEL

Equipto Div Aurora Equipment Co John & Prairie Aurora Ill
Heller (W C) & Co 1050 Bryant Montpelier Ohio
Heyer Sales Co Box H Milledgeville Ill
Lyon Metal Prods Inc 25 Montgomery Aurora Ill

Precision Equipment Co 3714 N Milwaukee Chicago 41 Ill
REMINGTON RAND INC 315 FOURTH AV NEW YORK 10 NY
Universal Steel Equipment Corp 32 47th Av New York 1 NY
Warren (J D) Mfg Co Montpelier Ohio

TACKERS, AUTOMATIC

Acme Staple Co 1643 Haddon Av Camden 3 NJ
ARROW FASTENER CO 1 JUNIUS BROOKLYN 12 NY
BOSTITCH INC 1101 MECHANIC WESTERLY RI
Burgess Fastening Co 1220 W 9th Cleveland 13 Ohio
Crofoot Mfg Co 217 Evergreen Av Mount Prospect Ill
FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill
HANSEN (A L) MFG CO 5037 N RAVENSWOOD AV CHICAGO 40 ILL
Heller Co 2135 Superior Av Cleveland 14 Ohio
Markwell Mfg Co Inc 200 Hudson New York 13 NY
Saranac Machine Co Benton Harbor Mich
SPOTNAILS, INC 1527 LYONS EVANSTON ILL

TACKERS, HAMMER

ARROW FASTENER CO 1 JUNIUS BROOKLYN 12 NY
BOSTITCH INC 1101 MECHANIC WESTERLY RI
FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL
Heller Co 2135 Superior Av Cleveland 14 Ohio
Markwell Mfg Co Inc 200 Hudson New York 13 NY
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill

TAMPERS

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
BARCO MFG CO 500 HOUGH BARRINGTON ILL
Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio
Garden-Denver Co 100 Williamson Quincy Ill
Master Vibrator Co 108 Davis Dayton Ohio
Stortz (John) & Sons 210 Vine Philadelphia Pa
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Woodings-Verona Tool Wks 1947 Thomas Verona Pa

TANKS, FUEL OIL & GAS STORAGE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Beall Pipe & Tank Corp 12005 N Burgard Portland 3 Ore
Bennett Industries Inc Peotone Ill
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Birmingham Tank Div Ingalls Iron Wks Co Birmingham 6 Ala
Black Sivalls & Bryson Inc 7500 E 12th Kansas City 26 Mo
Celina Mfg Co Celina Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Delta Tank Mfg Co Inc Box 1469 Baton Rouge La
Eaton Metal Prods Corp 1301 Willis Av Omaha 2 Nebr
IRVINGTON FORM & TANK CO 20 VESEY NEW YORK 7 NY
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
Koven (L) & Bros Inc 154 Ogden Av Jersey City 7 NJ
Market Forge Co 35 Garvey Everett 49 Mass
Modern Welding Co 1500 E 12th Owensboro Ky
PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY
Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va
San-Equip Inc E Brighton & Glen Ave Syracuse 5 NY
Seattle Boiler Wks Inc 5237 E Marginal Way Seattle 4 Wash
Stover Steel Tank & Mfg Co 100 S Hancock Freeport Ill
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal

TANKS, HOT WATER, HEATING SYSTEM

Beall Pipe & Tank Corp 12005 N Burgard Portland 3 Ore
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY
Eaton Metal Prods Corp 1301 Willis Av Omaha 2 Neb
Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va
Seattle Boiler Wks Inc 5237 E Marginal Way Seattle 4 Wash
Stover Steel Tank & Mfg Co 100 S Hancock Freeport Ill
THRUSH (H A) & CO PERU IND
Triplex Heating Specialties Co 242-68 Grant Peru Ind
Waldorf Heater Co Philadelphia 2 Pa
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal

TANKS, SEPTIC, CLAY

American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Bowerston Shale Co Bowerston Ohio
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver 1 Colo
Evans Brick Co Uhrichsville Ohio
Evans Pipe Co Uhrichsville Ohio
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Iowa Pipe & Tile Co Des Moines Iowa
Junction City Clay Co 3334 Prospect Av Cleveland 15 Ohio
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
Lehigh Sewer Pipe & Tile Co Box 728 Fort Dodge Iowa
Logan Clay Prods Co Logan Ohio
Lovell Clay Prods Co Lovell Wyo
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL
Owensboro Sewer Pipe Co Owensboro Ky
Robinson Clay Prods Co 2nd Natl Bank Bldg Akron 9 Ohio
Sealcon Prods Inc 927 Second Av South Minneapolis 2 Minn

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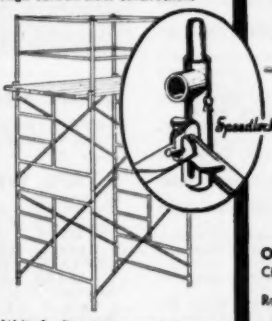

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Superior Clay Corp Uhrichsville Ohio
What Cheer Clay Prods Co What Cheer Iowa
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

TANKS, SEPTIC, STEEL

Armco Drainage & Metal Prods Inc 1939 Armco Av Middletown Ohio
Beall Pipe & Tank Corp 12005 N Burgard Portland 3 Ore
Celina Mfg Co Celina Ohio
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Eaton Metal Prods Corp 1301 Willis Av Omaha 2 Neb
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY
KNICKERBOCKER STAMPING CO PARKERSBURG W VA
Koven (L O) & Bros Inc 154 Ogden Av Jersey City 7 NJ
Modern Welding Co 1500 E 12th Owensboro Ky
PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY
Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va
San-Equip Inc E Brighton & Glen Ave Syracuse 5 NY
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 16 Ohio
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal

TANKS, SEPTIC, WOOD

Arrow Tank Co 16 Barnett Buffalo 15 NY
Carey Industries 191 Manor Dr Syracuse 3 NY
Fleishel Lumber Co 4243 Duncan Av St Louis 10 Mo
Johnson & Carlson 848 W Eastman Chicago 22 Ill

TANKS, STEEL, STORAGE

Aermotor Co 2500 W Roosevelt Rd Chicago 8 Ill
American Steel Wks 1211 W 27th Kansas City 8 Mo
American Water Softener Co 4th & Lehigh Av Philadelphia 33 Pa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Beall Pipe & Tank Corp 12005 N Burgard Portland 3 Ore
Black Sivalis & Bryson Inc 7500 E 12th Kansas City 26 Mo
Bennett Industries Inc Peotone Ill
Breyer Bros Whiting & Co Waupun Wis
Butler Mfg Co 7400 E 13th Kansas City 26 Mo
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill
Caldwell (W E) Co 2320 Brook Louisville 8 Ky
Delta Tank Mfg Co Inc Box 1469 Baton Rouge La
Eaton Metal Prods Corp 1301 Willis Av Omaha 2 Neb
Edwards Mfg Co 427 Culvert Cincinnati 2 Ohio
Farwell Ozmun Kirk & Co 108 Fairfield Av W St Paul 1 Minn
Heller-Aller Co Napoleon Ohio
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Manitowoc Ship Building Inc Manitowoc Wis
Modern Welding Co 1500 E 12th Owensboro Ky
National Tube Div United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
Richmond Engineering Co 7th & Hospital Richmond 5 Va
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Schlichter (E F) Co Inc 16 S Broad Philadelphia 2 Pa
Seattle Boiler Wks Inc 5237 E Marginal Way Seattle 4 Wash
Siebring Mfg Co Peven St George Iowa
Stover Steel Tank & Mfg Co 100 S Hancock Freeport Ill
Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind
Wedgewood Division Rheem Mfg Co Wells Av Newark Cal

TANKS, WOOD, STORAGE

Aermotor Co 2500 W Roosevelt Rd Chicago 8 Ill
Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
Atlantic Tank Corp 1207 Tonnelle Av Bergen NJ
Baltimore Cooperage Tank & Tower Co Ostend & Creek Baltimore 30 Md
Black Sivalis & Bryson Inc 7500 E 12th Kansas City 26 Mo
Caldwell (W E) Co 2320 Brook Louisville 8 Ky
Carey Industries 191 Manor Dr Syracuse 3 NY
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Economy Silo & Mfg Co Frederick Md
Fleishel Lumber Co 4243 Duncan Av St Louis 10 Mo
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich
M & M Woodworking Co 2301 N Columbia Blvd Portland 17 Ore
New England Tank & Tower Co Everett Mass
Pacific Wood Tank Corp 461 Market San Francisco 5 Cal
Schlichter (E F) Inc 16 S Broad Philadelphia 2 Pa
Unadilla Silo Co Unadilla NY
Union Lumber Co 620 Market Bldg San Francisco 4 Cal
United States Challenge Tank Co 1441 N Kingsbury Chicago 22 Ill

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TAPE, INSULATING

Boston Woven Hose & Rubber Co Box 1071 Boston 3 Mass
Firestone Industrial Prods Co 1200 Firestone Pkwy Akron 17 Ohio
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
Okonite Co Passaic NJ
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Van Cleef Bros Inc 7800 S Woodlawn Av Chicago 19 Ill

TAPE, MASKING

BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
Carborundum Co Buffalo Av Niagara Falls NY
Fricke (J E) Co 49 N Front Philadelphia 6 Pa
Goodrich (B F) Co 500 S Main Akron 18 Ohio
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis
Reardon Co 7501 Page Av St Louis 14 Mo
Van Cleef Bros Inc 7800 S Woodlawn Av Chicago 19 Ill

TAPE REPAIR OUTFIT

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WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA

TAPE RING

LUFKIN RULE CO 1730 HESS AV SAGINAW MICH

TAPE, WALLBOARD JOINT

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Economy Bins Binding Co 41-51 E 11th New York 3 NY
Marvan Corp Box 219 West Hartford Conn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Ranburn Co Inc 112 Killewald Av Tonawanda NY
Reardon Co 7501 Page Av St Louis 14 Mo
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Wesco Waterpaints Inc Matteson Ill

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UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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Chicago Steel Tape Co 7956 South Chicago Av Chicago 17 Ill
Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill
Economy Novelty & Printing Co 225 W 39th New York 18 NY
EVANS & CO 400 TRUMBULL ELIZABETH NJ
Graham (John H) & Co 105 Duane New York 8 NY
JOB LOTS TRADING 53 VESEY NEW YORK NY
Keuffel & Esser Co 300 Adams Hoboken NJ
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY
Parisian Novelty Co 3510 S Western Av Chicago 9 Ill
Post (Frederick) Co 333 W Lake Chicago Ill
Roe (Justus) & Sons 1 Roe Ct Patchogue LI NY
Starrett (L S) Co 101 Crescent Athol Mass
Union Tool Co 48 E River Orange Mass
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA
WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS

TAPES, SURVEYORS

EVANS & CO 400 TRUMBULL ELIZABETH NJ
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
Post (Frederick) Co 333 W Lake Chicago Ill

TAPES, WOVEN

LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
Post (Frederick) Co 333 W Lake Chicago Ill

TAPING MACHINES, DRYWALL

Ames Taping Tools Inc 1325 Elmer Belmont Cal
Deba Decorators Old Middleton Rd Madison 5 Wis
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

TAR, LIQUID

BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind

TAR, PITCH

American Asphalt Roof Co 7514 E 15th Kansas City 3 Mo
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
Colorado Fuel & Iron Corp Continental Oil Bdg Denver 2 Colo
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Logan-Long Co 6600 S Central Av Chicago 38 Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa

TARPAULINS

American Ladder Co 5509 NW 7th Av Miami 38 Fla

American Tent & Awning Co 1132 Mission San Francisco 3 Cal
Angier Corp Fountain St Framingham Mass
Astrup Co 2937 W 25th Cleveland 13 Ohio
Bemis Bros Bag Co 408 Pine St Louis 2 Mo
Canvas Prods Co 2115 Locust St Louis 3 Mo
Canvas Specialty Co Box 937 Hartford Conn
Clifton Mfg Co 323 Pleasant E Waco Tex
Couch Bros Mfg Co 100 E Ware Av East Point Ga
DANIELS (C R) INC 4900 BLOCK WETHEREDVILLE RD HILLSDALE BALTIMORE 16 MD
Fulton Bag & Cotton Mills 170 Boulevard Elsas SE Atlanta 3 Ga
Goodrich (B F) Co 500 S Main Akron 18 Ohio
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Johnson (J W) Co 3100 W Randolph Bellwood Ill
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
New York Drop Cloth Mfg Co 10-57 Jackson Av Long Island City NY
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
Standard Awning Co 83 Avon Hartford 5 Conn
Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
Tucker Duck & Rubber Co 515 Garrison Av Fort Smith Ark
United States Tent & Awning Co 2315 W Huron Chicago Ill
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

TARPAULINS, WATERPROOFED

Astrup Co 2937 W 25th Cleveland 13 Ohio
Berg (F O) Spokane Wash
DANIELS (C R) INC 4900 BLOCK WETHEREDSVILLE RD HILLSDALE BALTIMORE 16 MD
Fulton Bag & Cotton Mills Inc 170 Boulevard Elsas SE Atlanta Ga
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich
Hettrick (W E) & Son Co 3333 Maple Toledo 1 Ohio
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio
Johnson (J W) Co 3100 W Randolph Bellwood Ill
Upton Sales Corp 350 5th Av New York 1 NY
Wenzel (H) Tent & Duck Co 1035 Hickory St Louis Mo
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

TERNE PLATES

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Co 701 E Third Bethlehem Pa
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
Division Lead Co 7742 W 61st Pl Summit Ill
FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Wheeling Corrugating Co Wheeling W Va
Wheeling Steel Corp Wheeling W Va
Youngstown Sheet & Tube Co Frank Purnell Bldg Youngstown 1 Ohio

THIMBLES, CHIMNEY & STOVE PIPE

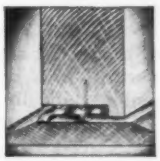
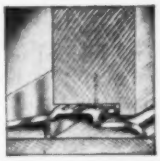
Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Hope Brick Works Hope Ark
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
MAJESTIC CO HALL ST HUNTINGTON IND
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL
Pacific Clay Prods 306 W Avenue 36 Los Angeles 31 Cal
Sterling Foundry Co Box 457 Sterling Ill
Swett (A L) Iron Wks 151 Glenwood Av Medina NY
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
Washington Brick & Lime Co Box 2198 Spokane 6 Wash
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

THRESHOLDS, METAL & PLASTIC

Accurate Metal Weatherstrip Co 216 E 26th New York 10 NY
Adams Co Box 268 Dubuque Iowa
ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN
American Mason Safety Tread Co 125 Perry Lowell Mass
Ames Metal Moulding Co 225 E 144th New York 51 NY
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY
Braun (J G) Co 615 S Paulina Chicago 12 Ill
B & T Metals Co 425 W Town Columbus 16 Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL
Decatur Iron & Steel Co 2nd St W Decatur Ala
Decorite Inc 2116 Peachtree Rd NW Atlanta Ga
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Erco Mfg Co 2368 N Elston Av Chicago 14 Ill
Ford Metal Moulding Corp 2701 Bridge Plaza N Long Island City NY
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

Nu-ART THRESHOLDS FOR EVERY TYPE DOOR!

Alacrome or Brass
Holes Drilled—Screws Furnished

See Pgs. 14-17
SOLD BY HARDWARE & LUMBER DEALERS

MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

Marquart Millwork Co 50 Ceape Oshkosh Wis
MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL
Metal Crafters E Av at 18th NE Cedar Rapids Iowa
Miller & Co Inc Selma Ala
Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
NATIONAL ALUMINUM CO 1135 ALUM CREEK DR COLUMBUS 9 OHIO
National Guard Prods Inc 757 Madison Av Memphis Tenn
National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa
Newman Bros Inc 660 4th Cincinnati 3 Ohio
Nichols Metal Strip Service 2108 Gilbert Cincinnati 6 Ohio
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
Safe Tread Co Inc 30 Vesey New York 7 NY
Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn
Union Aluminum Co Sheffield Ala
Wagnica Prods 6416 S Ashland Chicago 36 Ill
WEATHERPROOF PRODS CORP WALDO STATION BOX 8498 KANSAS CITY 5 MO
Wells Specialty Inc North Liberty Ind
Werner (R D) Co Inc 295 Fifth Av New York 16 NY
Wooster Prods Inc Loehr & Wyant Wooster Ohio
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

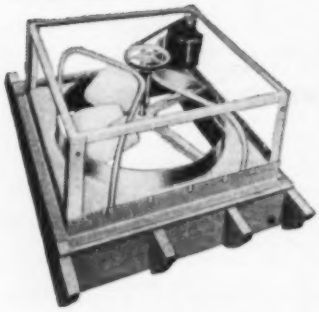
THRESHOLDS, WOOD

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill
Anderson-Tully Co Box 28 Memphis 10 Tenn
Angelina Hardwood Sales Co Box 1020 Wilson St Lufkin Tex
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN
Chapman & Dewey Lumber Co Memphis Tenn
Cole Mfg Co Box 2657 Memphis 2 Tenn
CROSSETT LUMBER CO CROSSETT ARK
Edens Birch Lumber Co Corrigan Tex
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farley & Loetscher Mfg Co Dubuque Iowa
Farrin (M B) Lumber Co Spring Grove Cincinnati Ohio
Fordyce Lumber Co Fordyce Ark
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hallett Mfg Co Inc Mobile 2 Ala
Hardwood Corp of America Box 1091 Asheville NC
Holly Hill Lumber Co Holly Hill SC
Hutton & Bourbonnais Co Box 330 Hickory NC
Industrial Lumber Co Little Rock Ark
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
Mansfield Hardwood Lumber Co 1166 Louisiana Av Shreveport La
Meadow River Lumber Co Rainelle W Va
Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn
Miller Bros Co Box 540 Johnson City Tenn
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Owen (R C) Co Hopkinsville Kans
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss
Plumly (P W) Lumber Corp Winchester Pa
Poinsett Lumber & Mfg Co Pickens SC
Reynolds Builders Supply 1000 N Front Albany Ga
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
Rose (D M) & Co Rose Pl Knoxville 4 Tenn
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Southern Lumber Co Warren Ark
Stewart (E A) Lumber Co Inc Box 1777 Texarkana Tex
Stuart Lumber Corp Stuart 10 Va
Temple Lumber Co Pineland Tex
Triplett Lumber Co Inc Box 738 Lenoir NC
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
Webster (H E) Lumber Co 615 RA Long Bldg Kansas City 6 Mo
Williams-Brownell Inc Box 1091 Asheville NC
Williams (J L) & Sons Sheridan Ark

TIES, WALL

Adams Co Box 268 Dubuque Iowa
Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City 6 Okla
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
Bethlehem Steel Co 701 E Third Bethlehem Pa
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Carter Waters Corp 2440 Pennway Kansas City 8 Mo
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CEDAR RAPIDS BLOCK CO DUR-O-WALL DIV 656 TWELFTH AV SW CEDAR RAPIDS IOWA
Central Prods Co 57 Forest Battle Creek Mich
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Conver Steel & Wire Co 621 E 132nd New York 54 NY
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa

"Niteair" Fan Technical Data



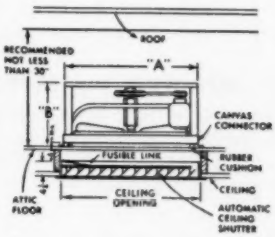
"Niteair" Rancher Fans—

The Rancher fan . . . an economical and complete packaged unit . . . quick and easy to install. It is horizontally mounted with a belt driven motor. The air flow is in a vertical direction. Requires practically no maintenance or attention other than routine fall and spring inspection. Many added features: . . . Sealed bearings, all moving parts . . . Air Tight canvas seal . . . Automatic Time Switch (optional) . . . Rubber cushion mounted for quiet, vibration-free operation.

The dimensional drawing illustrates how the Rancher Fan has been designed and built especially for use in buildings or dwellings of low pitched roof construction. Its compactness makes fan installation possible in otherwise hard-to-solve applications . . . note specifications.

SPECIFICATIONS AND DIMENSIONS—

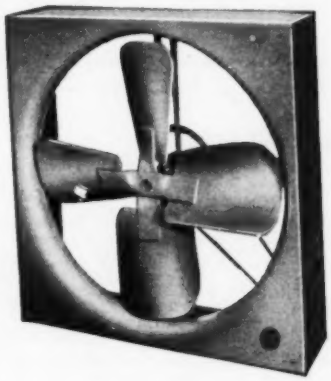
unit	fan size	A	B	"C" ceiling opening	"D" outside dimension	c.f.m. free del.	approx. r.p.m.	motor h.p.	motor pulley o.d.	fan pulley o.d.	belt length
NA-243-R	24"	30x30	12	26x30¼	28x32	4750	655	⅓	2.5	7	46
NA-303-R	30"	36x36	12	30x36½	32x38	6409	466	⅓	2.25	8	56
NA-363-R	36"	42x42	12	36x42½	38x44	8780	376	⅓	2.25	10	68
NA-423-R	42"	48x48	16	42x48½	44x50	11929	318	⅓	2.75	14	80



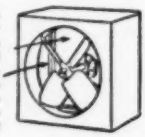
"Niteair" Panel Units

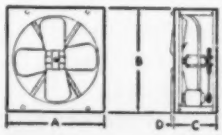
NA-Series Industrial, Residential and Commercial Niteair panel units . . . greater flexibility of installation . . . superior performance. Automatic shutters can be mounted directly on the discharge side of panel. A guard can be mounted on either front and/or back panel. Motor is accessible and protected on rear side by louvre when installed.

Niteair Panel Units have four blades properly pitched to provide greatest suction and air movement. Exclusive LAU self-aligning pillow blocks with Durex bronze bearings hold shaft rigidly, preventing vibration. Entire assembly statically balanced.



Direction of air movement is the same on all LAU Niteair fans. Thus, the air moves from the panel THRU the venturi past the fan blades and is exhausted. This type of air movement enables far greater efficiency than found in the conventional exhaust fan usually seen.





This diagram sketch shows front and end dimensional views (with panels removed) of the NA-243, NA-303, NA-363, NA-423, NA-425, NA-485 and NA-487 "NITEAIR" fans.

SPECIFICATIONS AND DIMENSIONS—

unit	fan size	A	B	C	D	c.f.m. free del.	1/10" s.p.	approx. r.p.m.	motor h.p.	motor pulley o.d.	fan pulley o.d.	belt length
NA-243	24"	30	30	11	0	4750	3500	655	⅓	2.5	7	46
NA-303	30"	36	36	11	0	7611	6396	564	⅓	2.75	8	56
NA-363	36"	42	42	11	1⅛	9925	7759	413	⅓	2.5	10	68
NA-423	42"	48	48	15	1⅛	11929	8350	318	⅓	2.75	14	80
NA-425	42"	48	48	15	1⅛	14347	12050	380	½	3.00	14	80
NA-485	48"	54	54	15	1⅛	15679	12000	317	½	2.75	14	88
NA-487	48"	54	54	15	1⅛	17564	14600	350	¾	3.00	14	88

For greatest efficiency SPECIFY 2-SPEED MOTORS.

Lau fan ratings are certified by the P.F.M.A. and carry UL approval. Fans are guaranteed for five years and motors carry a one year warranty.

Units complete with pulleys, belts and 115V, 60 cycle, single phase A.C. resilient mounted sleeve bearing motors. (Models NA-425, 485, 487 have 115/230 Volt motors)

2008 Home Avenue

The LAU Blower Company • Dayton 7, Ohio

LAU 1954 Fan Facts

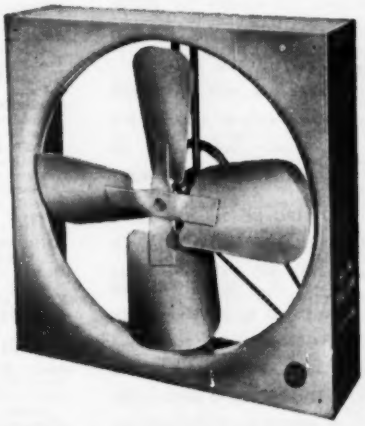
Try this LOW-COST way to make more friends and profits for your business!

You profit quicker... and sell easier when your homes and buildings feature "built-in extras" that add so much to the comfort and convenience of the buyer.

Make friends and customers of your prospects by installing LAU "Niteair" cooling. Just a flip of the switch and these superior fans send gentle, cooling, refreshing breezes flowing through the home. Hot, stagnant air is quickly expelled.

Quick... easy... and economical to install. LAU "Niteair" Fans make friends and really JUMP profits for you. Plan to install the tested, proven LAU "Niteair" now!

LAU "Niteair" Rancher Fans. Designed for homes with low-pitched roofs. Available in four sizes—24", 30", 36" and 42", with air delivery to meet every demand.



LAU "Niteair" Panel Units. Newly designed, ruggedly constructed. Discharge capacity for every requirement. Five sizes—24", 30", 36", 42" and 48".

Certified Ratings PFMA UL

Guaranteed 5 years

Lau fan ratings are Certified by the PFMA and carry UL approval. Fans are guaranteed for 5 years and motors carry a one-year warranty.

THE LAU BLOWER COMPANY, 2008 Home Avenue • Dayton 7, Ohio
Write today for catalogs and further information.

Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gary Pioneer Steel Corp Gary Ind
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Kees (F D) Mfg Co 700 Park Av Beatrice Neb
KEWANEE MFG CO 150 BURLINGTON KEWANEE ILL
Klauer Mfg Co 9th & Washington Dubuque Iowa
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn
Merwin Mfg Co 19th & German Erie Pa
NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA
Northwest Metal Prods Inc 55 Spokane Av Seattle 4 Wash
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill
Washington Mfg Co Box 370 Washington Iowa
Wheeling Corrugating Co Wheeling W Va
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

TIES, WALL & COLUMN, WIRE MESH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill
Wheeling Corrugating Co Wheeling W Va
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

TILE, ACIDPROOF

Atlas Mineral Prods Co Mertztown Pa
Flexrock Co 36th & Filbert Philadelphia 4 Pa
Harbison-Walker Refractories Co Farmers Bank Bldg Pittsburgh 22 Pa
Mexico Refractories Co Love & Cole Mexico Mo
National Tile & Mfg Co E 26th St Anderson Ind
Nukem Prods Corp 111 Colgate Av Buffalo 20 NY
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ

TILE, ASPHALT

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio Tex
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
CONGOLEUM-NAIRN INC 195 BELGRAVE DR KEARNY NJ
Duraflex Corp 411 E 25th Baltimore 2 Md
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forman-Ford & Co 111 E Second Minneapolis Minn
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KENTILE INC 58 SECOND AV BROOKLYN 15 NY
MASTIC TILE CORP OF AMERICA N MONTGOMERY NEWBURGH NY
MOULTILE INC N MONTGOMERY NEWBURGH NY
Sloane Delaware Floor Prods Inc Box 401 Trenton 3 NJ
Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
Tile-Tex Div Flintkote Co Chicago Heights Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

TILE, CLAY

Acme Brick Co Box 425 Fort Worth Tex
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Iowa
American-Olean Tile Co Kenilworth Av Landsale Pa
Arketex Ceramic Corp 6 N Walnut Brazil Ind
Beacon Brick Co 619 Beacon Bldg Wichita 2 Kan
Binghamton Brick Co Inc Binghamton NY
Black Hills Clay Prods Co Box 730 Belle Forche SD
Brazil Hollow Brick & Tile Co Brazil Ind
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio
Charleston Clay Prods Co 1947 Saunders Charleston 22 W Va
Chicago Fire Brick Co 1461 N Elston Av Chicago 22 Ill
Claycraft Co Box 866 Columbus 16 Ohio
Conco Building Prods Inc Box 111 Mendota Ill
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo
Elgin Standard Brick Mfg Co Elgin Tex
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
General Shale Prods Corp Johnson City Tenn
Gladding McBean & Co 1275 Harrison San Francisco Cal
Hocking Valley Brick Co 150 E Broad Columbus 15 Ohio
Hope Brick Wks Hope Ark
Humphrey Brick & Tile Co Brookville Pa
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City Utah
Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa
Kraftile Co Niles Cal
Mason City Brick & Tile Co Mason City Iowa
MOSAIC TILE CO 1949 PERSHING AV ZANESVILLE OHIO
National Tile & Mfg Co E 26th St Anderson Ind
Oconee Clay Prods Co Box 262 Milledgeville Ga
Pacific Clay Prods 306 W Av 26 Los Angeles 31 Cal
Peoria Brick & Tile Co Box 515 Peoria Ill
POMONA TILE MFG CO 629 N LABREA AV HOLLYWOOD 38 CAL
Redfield Brick & Tile Co Redfield Iowa
Red River Valley Brick Corp Grand Forks ND
Reno Press Brick Co Box 116 Reno Nev
Robertson Mfg Co Box 848 Trenton 5 NJ
Robinson Clay Prod Co Second National Bank Bldg Akron 9 Ohio
Rockford Brick & Tile Co Rockford Iowa
Sheffield Brick & Tile Co Sheffield Iowa
Sheridan Press Brick & Tile Co Sheridan Wyo
Sparta Ceramic Co East Sparta Ohio
Standard Brick & Tile Co 123 NW Fourth Evansville 8 Ind
Stillwater Clay Prods Inc 3334 Prospect Av Cleveland 15 Ohio
Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo
Texas Brick Co Box 510 Brownwood Tex
United Materials & Richmond Brick Co Ltd Point Richmond Cal
Verdigris Valley Vitrified Brick & Tile Co Neodesha Kan
Wheeling Tile Co 31st & Eoff Wheeling W Va
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln Neb

TILE, CORK

AMRSTRONG CORK CO 1010 CONCORD LANCASTER PA
Dodge Cork Co Inc Laurel & Manor Lancaster Pa
KENTILE INC 58 SECOND AV BROOKLYN 15 NY

TILE, DRAIN

Acme Brick Co Box 425 Fort Worth Tex
Acme Shale Brick Co 1153 Main Buffalo 9 NY
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Iowa
Alliance Clay Prods Co 1500 S Mahoning Box 746 Alliance Ohio
American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Birmingham Building Prods Corp 3260 Fayette Av Birmingham 8 Ala
Black Hills Clay Prods Co Box 730 Belle Forche SD
Bowerston Shale Co Bowerston Ohio
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Bush (W G) & Co Nashville Tenn
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
Chehalis Brick & Tile Co Chehalis Wash
Chicago Fire Brick Co 1461 N Elston Av Chicago 22 Ill
Clay City Pipe Co Box 272 Uhrichsville Ohio
Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
Columbia Pipe Co Columbia SC
Conco Building Prods Inc Box 111 Mendota Ill
Concrete Prods Corp Humboldt Iowa
Dee Clay Prods Co Bloomingdale Ind
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver 1 Colo
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Evans Pipe Co 23 Newport Av Uhrichsville Ohio
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Graystone Concrete Prods Co 134 Nickerson Seattle 9 Wash
Great Falls Brick Co Great Falls Mont
Hancock Brick & Tile Co Findlay Ohio
Humbodt Brick & Tile Co 822 Bridge Humboldt Kan
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
Kingsland Clay Prods Co Lyndhurst NJ
LACLEDE CHRISTY 2801 HEREFORD ST LOUIS 9 MO
Lehigh Sewer Pipe & Tile Co Box 728 Fort Dodge Iowa
Logan Clay Prods Co Logan Ohio
Mason City Brick & Tile Co Mason City Iowa
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL
Oconee Clay Prods Co Box 262 Milledgeville Ga
Pacific Clay Prods 306 W Av 36 Los Angeles 31 Cal
Pomona Terra Cotta Co Pomona NC
Redfield Brick & Tile Co Redfield Iowa
Robinson Clay Prods Co 2nd National Bank Bldg Akron 9 Ohio
Rockford Brick & Tile Co Rockford Iowa
Sheffield Brick & Tile Co Sheffield Iowa
Standard Brick & Tile Corp 123 NW Fourth Evansville 8 Ind
Sheridan Press Brick & Tile Co Sheridan Wyo
Streator Drain Tile Co Streator Ill
Superior Clay Corp Uhrichsville Ohio
Texas Brick Co Box 510 Brownwood Tex
Texas Vitrified Pipe Co Box 111 Mineral Wells Tex
United Brick & Tile Co 903 McGee Kansas City 42 Mo
Universal Sewer Pipe Co 1500 Union Commerce Bldg Cleveland 14 Ohio
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Yankee Hill Brick Co 728 Stuart Bldg Lincoln Neb

TILE, GLASS

LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG 12TH FL TOLEDO 3 OHIO

TILE, HEARTH

Builders Brick Co 3800 9th Av S Seattle 8 Wash
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Kraftile Co Niles Cal
Murray Tile Co Inc Cloverport Ky
National Tile & Mfg Co E 26th St Anderson Ind
Sparta Ceramic Co East Sparta Ohio
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

TILE, LINOLEUM

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Bonafide Mills Inc 295 Fifth Av New York NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ

TILE, PARTITION, CLAY

Acme Brick Co Box 425 Fort Worth Tex
Acme Shale Brick Co 1153 Main Buffalo 9 NY
Black Hills Clay Prods Co Box 730 Belle Forche SD
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Chehalis Brick & Tile Co Chehalis Wash
Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
Conco Building Prods Inc Box 111 Mendota Ill
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla

Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Great Falls Brick Co Great Falls Mont
Hanley Co 101 Park Av New York NY
Hocking Valley Brick Co 150 E Broad Columbus 15 Ohio
Hope Brick Works Hope Ark
Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa
Lewiston Brick & Tile Co Lewiston Mont
Mason City Brick & Tile Co Mason City Iowa
Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn
Redfield Brick & Tile Co Redfield Iowa
Reno Press Brick Co Box 116 Reno Nev
St Anne Brick & Tile Co St Anne Ill
Sheffield Brick & Tile Co Sheffield Iowa
Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln Neb

TILE, PARTITION, GYPSUM

Blue Diamond Corp 1650 S Alemeda Los Angeles Cal
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Minneapolis Builders Suppy Co 927 Second Av Minneapolis 2 Minn
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

TILE, PAVING, NON-SLIP

American Abrasive Metals Co 460 Coit Irvington 11 NJ
Charleston Clay Prods Co 1947 Saunders Charleston 22 W Va
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 13 NY
National Tile & Mfg Co E 26th St Anderson Ind
Safe Tread Co Inc 30 Vesey New York 7 NY
Stark Brick Co Canton Ohio
Washington Brick & Lime Co Box 2198 Spokane Wash

TILE, PLASTIC

American Rubber Prods Corp 151 E 50th New York 22 NY
Cermak Tile Co 4901 Brookpart Rd Cleveland Ohio
CONGOLEUM-NAIRN INC 195 BELGRAVE DR KEARNY NJ
Danbury Rubber Co Inc Shelter Rock Rd Danbury Conn
Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
MASTIC TILE CORP OF AMERICA N MONTGOMERY NEWBURGH NY
Metal Tile Prods Inc 225 W Walnut Hastings Mich
MOULTILE INC N MONTGOMERY NEWBURGH NY
National Plywoods Inc 2710 Throop Chicago Ill
Plymold Co 2707 Tulare Av Burbank Cal
Robbins Floor Prods Inc Tuscumbia Ala
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
Styron Bri-Tile Co of New York 177 Broadway New York 7 NY
Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
United States Stoneware Co 5300 E Tallmadge Av Akron 9 Ohio
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX

TILE, PLASTIC, ASBESTOS

Acorn Plastic Engineers Inc 177 Broadway New York 7 NY
Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio Tex
Camp Co Inc 6958 S State Chicago 21 Ill
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill

TILE, QUARRY

Builders Brick Co 3800 9th Av S Seattle 8 Wash
Carlyle Tile Co Ironton Ohio
Clark (N) & Sons Div Pacific Clay Prods Alameda Cal
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gladding-McBean & Co 2901 Los Feliz Blvd Los Angeles Cal
Hanley Co 101 Park Av New York NY
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Ludowici-Celadon Co 75 E Wacker Dr Chicago 1 Ill
Mifflin (B) Hood Co Daisy Tenn
Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
MOSAIC TILE CO 1949 PERSHING AV ZANESVILLE OHIO
Murray Tile Co Inc Cloverport Ky
Pacific Clay Prods 306 W Ave 26 Los Angeles 31 Cal
Summitville Tiles Inc Summitville Ohio
United Materials & Richmond Brick Co Ltd Point Richmond Cal
Utah Fire Clay Co Salt Lake City Utah
Washington Brick Lime & Sewer Pipe Co Box 2198 Spokane Wash
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

TILE, ROOFING

California Pottery Co Niles Cal
Clark (N) & Sons Div Pacific Clay Prods Alameda Cal
Gladding-McBean & Co 1725 Harrison San Francisco Cal
Interstate Brick Co 3110 S 11th E Box 144 Sugarhouse Sta Salt Lake City Utah
Ludowici-Celadon Co 75 E Wacker Dr Chicago 1 Ill
Mifflin (R) Hood Co Daisy Tenn
Washington Brick & Lime Co Box 2198 Spokane Wash
Wolverine Porcelain Enameling Co 3350 Scotten Av Detroit 10 Mich
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

TILE, ROOFING, INSULATING

Texas Vermiculite Co 303 Brazos Austin Tex

TILE, ROOFING, METAL

Edwards Mfg Co 5th & Butler Cincinnati Ohio
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY

TILE, RUBBER

American Biltrite Rubber Co Perrine Av Trenton 2 NJ
American Rubber Corp Box 290 Albertville Ala
American Rubber Prods Corp 151 E 50th New York 22 NY
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Beauty Wear Rubber Co Inc 129 Washington Av S Hopkins Minn
Camp Co Inc 6958 S State Chicago 21 Ill
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
CONGOLEUM-NAIRN INC 195 BELGRAVE DR KEARNY NJ
Danbury Rubber Co Danbury Conn
Forman-Ford & Co 111 E Second Minneapois Minn
Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass
GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON 16 OHIO
KENTILE INC 58 SECOND AV BROOKLYN 15 NY
Lustro Tile Mfg Co 49½ S Main Akron 8 Ohio
Mitchell Rubber Prods Inc 2130 San Fernando Rd Los Angeles 65 Cal
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
Palladium Prods 6127 Cedar Av Philadelphia 43 Pa
RCA Rubber Co 1833 E Market Akron Ohio
Robbins Floor Prods Inc Tuscumbia Ala
Rubber Prods Inc 111 S Second Minneapolis 1 Minn
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WRIGHT MFG CO BOX 6567 HOUSTON TEX

TILE, SEWER, SEGMENT

Bowerston Shale Co Bowerston Ohio
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE RM 2100 CHICAGO 2 ILL
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio

TILE, SILO

Acme Brick Co Box 425 Fort Worth Tex
Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich
Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa
United Brick & Tile Co 903 McGee Kansas City 42 Mo
Yankee Hill Brick Co 728 Stuart Bldg Lincoln Neb

TILE, STRUCTURAL CLAY

Acme Brick Co Box 425 Fort Worth Tex
Acme Shale Brick Co 1153 Main Buffalo 9 NY
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Iowa
Arketex Ceramic Corp 6 N Walnut Brazil Ind
Beacon Brick Co 619 Beacon Bldg Wichita 2 Kans
Brookhaven Pressed Brick & Mfg Co Brookhaven Miss
Builders Brick Co 3800 9th Av S Seattle 8 Wash
Bush (W G) & Co Nashville Tenn
Charleston Clay Prods Co Charleston W Va
Chehalis Brick & Tile Co Chehalis Wash
Cherokee Brick Co Box 58 Macon Ga
Claycraft Co Box 866 Columbus 16 Ohio
Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
Conco Building Prods Inc Mendota Ill
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo
Dickinson Clay Prods Co Dickinson ND
Elgin Butler Brick Co Austin Tex
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla
Fraser Brick Co 2501 Cedar Springs Dallas Tex
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
General Shale Prods Corp Johnson City Tenn
Great Falls Brick Co Great Falls Mont
Hocking Valley Brick Co 150 E Broad Columbus Ohio
Hope Brick Wks Hope Ark
Humboldt Brick & Tile Co 822 Bridge Humboldt Kan
Illinois Brick Co 228 N LaSalle Chicago Ill
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City Utah
Jenkins Brick Co Montgomery Ala
Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich
Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa
Kraftile Co Niles Cal
Lovell Clay Prods Lovell Wyo
Mason City Brick & Tile Co Mason City Iowa
Metropolitan Brick Inc 1017 Renkert Bldg Canton 2 Ohio
Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
Minneapolis Builders Supply Co 927 Second Av Minneapolis Minn
Moorhead Brick & Tile Co 5th Av & 11th St Joseph Mo
New Bethlehem Tile Co New Bethlehem Pa
Oconee Clay Prods Co Box 262 Milledgeville Ga
Peoria Brick & Tile Co Box 515 Peoria Ill
Redfield Brick & Tile Co Redfield Iowa
Red River Valley Brick Corp Grand Forks ND
Reno Press Brick Co Box 116 Reno Nev
Rockford Brick & Tile Co Rockford Iowa
Robinson Clay Prod Co Second National Bank Bldg Akron 9 Ohio
St Anne Brick & Tile Co St Anne Ill
Schneider Brick & Tile Co Inc Pere Marquette New Orleans La
Sheffield Brick & Tile Co Sheffield Iowa
Sheridan Press Brick & Tile Co Sheridan Wyo
Standard Brick & Tile Corp 123 NW Fourth Evansville 8 Ind
Stark Brick Co Canton 1 Ohio
Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo
Texas Brick Co Box 510 Brownwood Tex
United Brick & Tile Co 903 McGee Kansas City 42 Mo
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln Neb

TILE, WALL, ALUMINUM, PLASTIC COATED

Alloy Tile Corp 109 Roosevelt Av Belleville NJ
Bestile Mfg Co State & Sultana Ontario Cal
Color Craft Prods Inc 5035 Belleville Detroit 11 Mich
Metal Tile Prods Inc 225 E Walnut Hastings Mich

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

TILE, WALL, BOARD

A & F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA
Aetna Plywood & Veneer Co 1752 Elston Av Chicago 22 Ill
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Barclay Mfg Co Inc 385 Gerard Av Bronx NY
Bestile Mfg Co State & Sultana Ontario Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Color-Craft Prods Inc 5035 Belleville Detroit 11 Mich
Colotyle Tyle-Bord Div Tyle-Bord Co Inc Seattle Wash
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill
Homasote Co Fernwood Rd Trenton 3 NJ
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL
Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis
Miratile Mfg Co 600 W 81st Chicago 20 Ill
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Plywoods Inc 2710 Throop Chicago Ill
National Tileboard Corp 1314 Blondell Av New York 61 NY
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Plytex Corp 1731 Elston Av Chicago 22 Ill
Prestile Mfg Co 5850 Ogden Av Chicago 50 Ill
Simpson Logging Co White Bldg Seattle 1 Wash
Superior Wall Prods Co 4401 N American Philadelphia 40 Pa
Tex-A-Panel Mfg Co 10848 Harry Hines Blvd Dallas Tex
Tylac Co Monticello Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo
Wall-Tile Mfg Co 5850 W Ogden Cicero Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

TILE, WALL, BOARD, GYPSUM

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

TILE, WALL, BOARD, PLASTIC COATED

A & F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Barclay Mfg Co Inc 385 Gerard Av Bronx NY
Bestile Mfg Co 416 S Sultana Box 7 Ontario Cal
Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill
MARSH WALL PRODS INC 268 MAIN DOVER OHIO
Miratile Mfg Co 600 W 81st Chicago Ill
National Plywoods Inc 2710 Throop Chicago Ill
National Tileboard Corp 1314 Blondell Av New York 61 NY
Prestile Mfg Co 5850 Ogden Av Chicago 50 Ill
Superior Wall Prods Co 4401 N American Philadelphia 40 Pa
Tex-A-Panel Mfg Co 10848 Harry Hines Blvd Dallas Tex
Tylac Co Monticello Ill
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

TILE, WALL, GLASS

Consumers Co 79 W Monroe Chicago 3 Ill
Dearborn Glass Co 2414 W 21st Chicago 8 Ill
US Quarry Tile Co 110 E 42nd New York NY

TILE, WALL, MARBLE

MARSH WALL PRODS INC 268 MAIN DOVER OHIO
Vermont Marble Co Proctor Vt

TILE, WALL, METAL

Alloy Tile Corp 109 Roosevelt Av Belleville NJ
Baltimore Porcelain Steel Co DT & IRR & Detroit Lima Ohio
Bestile Mfg Co State & Sultana Ontario Cal
Caloy Corp 1418 Maccabees Bldg Detroit 2 Mich
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
Metal Tile Prods Inc 120 N Broadway Hastings Mich
Ohio Can & Crown Co 16th & Harsh Massillon Ohio
Rigidized Metals Corp 687 Ohio Buffalo 3 NY
Tach-Fast Mfg Co Lonaconing Md
VIKON TILE CORP WASHINGTON NJ
Wheeling Corrugating Co Wheeling W Va

TILE, WALL, PLASTIC

A & F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA
AMERCO PLASTICS 177 BROADWAY NEW YORK 7 NY
Barclay Mfg Co 385 Gerard Av Bronx NY
Bestile Mfg Co State & Sultana Ontario Cal
BOLTA PRODS SALES INC 70 GARDEN LAWRENCE MASS
Cermak Tile Co Inc 4901 Brookpark Rd Cleveland 29 Ohio
Chicago Plastic Prods Co Inc 210 W Evergreen Chicago Ill
Church (C F) Mfg Co Box 471 Holyoke Mass
Color Craft Prods Inc 5035 Belleville Detroit 11 Mich
Commonwealth Plastics Inc Superior Plastics Div 426 N Oakley Blvd Chicago 12 Ill
East Coast Tileboard Co 41-59 Wycoff Av Brooklyn 37 NY
Ford Roofing Prods Co 188 W Randolph Chicago 2 Ill
FRANKLIN PLASTICS INC FRANKLIN PA
Gits Molding Corp 4600 W Huron Chicago 44 Ill
Guildcrest Corp 2938 W 63rd Chicago 20 Ill
HACHMEISTER INC BOX 357 PITTSBURGH 30 PA
Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
Lustro Tile Mfg Co 49½ S Main Akron 8 Ohio
Mastro Plastics Corp 3040 Webster Av Bronx NY
Meridian Plastics Inc Box 430 Cambridge Ohio
Nalle Plastics Inc 108-112 W Second Austin 1 Tex
NATIONAL ALUMINUM CO 1135 ALUM CREEK DR COLUMBUS 9 OHIO
National Plywoods Inc 2710 Throop Chicago Ill
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL
Pittsburgh Plastic Prods Inc 131 S Taylor South Bend 24 Ind
Plymold Co 2707 Tulare Av Burbank Cal
Prestile Mfg Co 5850 W Ogden Av Chicago 50 Ill
Robbins Floor Prods Inc Tuscumbia Ala
S & W Moulding Co 990 Parsons Av Columbus Ohio
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
Skyline Industries Titusville Pa
Stylon Corp Summer St Box 341 Milford Mass
Styron Bri-Tile Co of New York 177 Broadway New York 7 NY
Superior Plastics Inc 410-430 N Oakley Blvd Chicago 12 Ill
Superior Wall Prods Co 4401 N American Philadelphia 40 Pa
Thomas Moulding Floor Mfg Co 325 W Huron Chicago 1 Ill
Tile-Rite Co 4105 Harvard Av Cleveland 4 Ohio
Tile-Tex Div Flintkote Co 1232 McKinley Chicago Heights Ill
TILEMASTER CORP 1415-21 DIVERSEY PKWY CHICAGO 14 ILL
Trimedge Inc 4621 Mahoning Youngstown 1 Ohio
VIKON TILE CO WASHINGTON NJ
Wilson Plastics Inc 1531 Milan Rd Sandusky Ohio
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

TILE, WALL, PORCELAIN ENAMEL

American & Venetian Tile Co 1625 Oak Kansas City 8 Mo
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Baltimore Porcelain Steel Co DT & IRR at Detroit Lima Ohio
Clyde Porcelain Steel Corp Clyde Ohio
Porcelain Enamel Prods Corp Bay State Rd Rehoboth Mass
Seaporcel Metal Inc Borden Av & Dutchkills Long Island NY
Tileboard Corp 2550 Atlantic Av Brooklyn NY
Universal Major Elec Appliance Co Box 119 Lima Ohio

TILE, WALL, WOOD

MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Malmtile Co Fair Haven Vt

TILE & TILEBOARD, ACOUSTICAL

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
Durisol Inc 420 Lexington Av New York 17 NY
Hansson (Elof) Inc 220 E 42nd New York 17 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
Kimberly-Clark Corp Neenah Wis
National Plywoods Inc 2710 Throop Chicago Ill
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 1 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Porete Mfg Co Porete Av North Arlington NJ
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY
Simpson Logging Co White Bldg Seattle 1 Wash
Tileboard Corp 2550 Atlantic Av Brooklyn NY
UNITED STATES GYPSUM CO 300 W CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

TIMBER CONNECTORS

Cleveland Steel Specialty Co Inc 3765 E 91st Cleveland 5 Ohio
TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC
Timber Structures Inc Box 3782 Portand 8 Ore

TIRES & TUBES, RUBBER

Firestone Industrial Prods Co 1200 Firestone Pkwy Akron 17 Ohio
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

TOILETS, ELECTRIC

McPherson Inc 4603 Osborne Av Tampa 3 Fla

TOOL BOXES

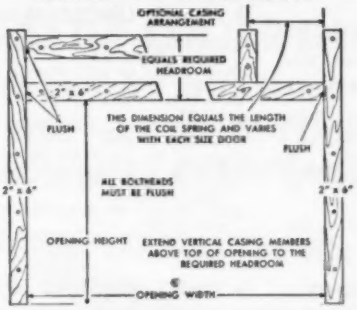
Hamilton Metal Prods Co Hamilton Ohio
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Master Metal Prods Inc 291 Chicago Buffalo 4 NY
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal
Union Steel Chest Corp 54 Church Le Roy NY

TOOLS, BORING

Circo Tool Co 3805 W Lisbon Milwaukee Wis
CUSTOM MACHINERY CO BOX 1803 FORT WORTH TEX

OVERdoors · OPERATORS · RADIO CONTROL

MODEL 50 OVERdoors



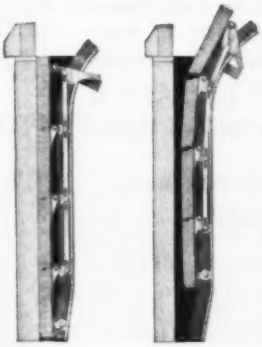
Sizes and Space Required—Standard

Model 50 sizes go up to 265 sq. ft. not exceeding 20′ wide, 20′ high. Model 100 (extra-heavy Model 50 hardware) sizes go up to 400 sq. ft., not exceeding 28′2″ wide, 21′6″ high.
Headroom—16″ (13⅜″ min.)
Sideroom—4″ Center Post—8″
Backroom—Door Height plus 18″ (12″ min.)

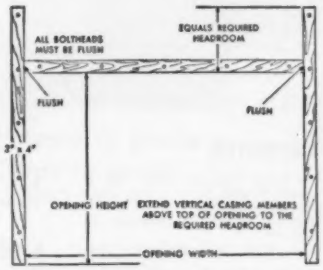
Cam Closing Action

1. Weather-tight closing because cam action locks door snugly against stop strips.
2. Easy-working because cam action releases door instantly. Full ½″ clearance prevents sticking or binding.

OTHER FEATURES: Self-latching night lock, continuous track mounting, rubber weather-stripping, ball-bearing rollers. Douglas fir sections in flush and panel designs, and torsion springs.



MODEL 31 OVERdoors



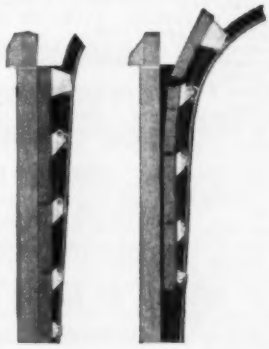
Sizes and Space Required—Standard

Model 31 sizes go up to 150 sq. ft. not exceeding 16′ wide and 12′6″ high.
Headroom—14″ (12¼″ min.)
Sideroom—3½″
Center Post—7″
Backroom—Door Height plus 14″ (12″ min.)

Wedge-Set Roller System
(Patent applied for)

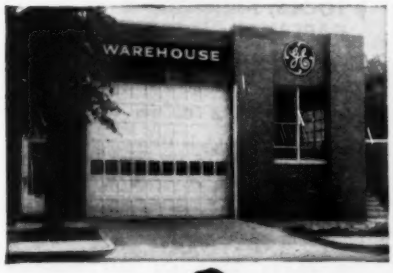
Provides tighter closing than with gradual wedge track alone. Yet sticking and binding are prevented because rollers have offset mounting and are positioned to provide more opening space.

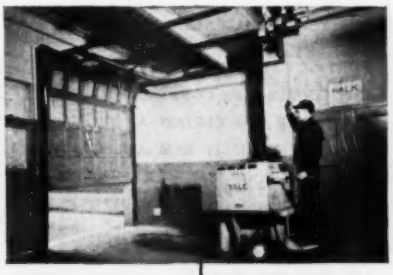
OTHER FEATURES: Douglas fir sections, self-latching night lock, extension springs, guide rope, ball-bearing rollers. Attractive flush and panel designs.

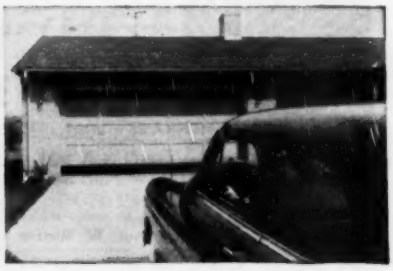


2 basic door models meet most price and size requirements ...door operators may be electrically or radio-controlled

Only Barber-Colman Company manufactures a complete line of overhead type doors, door operators, and controls for residential, commercial and industrial applications. Summary information on doors is given above—detailed, descriptive literature is available on request on doors as well as on door operators and controls. Electric door operators are engineered in several models for heavy industrial, light industrial, commercial and residential use—all models may be controlled by a variety of electric switches or by radio control. Your Barcol distributor will install, guarantee, and service.







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Mephisto Tool Co Inc Box 16 Hudson NY
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North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa
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Drew (C) & Co Inc Maple St Kingston 7 Mass
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Empire Level Mfg Co 10930 W Potter Rd Milwaukee 13 Wis
General Hdwe Mfg Co Inc 80 White New York 13 NY
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GYPSUM CEILING JACK CO 113 22ND CEDAR RAPIDS IOWA
Leetonia Tool Co 142 Main Leetonia Ohio
Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass
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North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa
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Peck Stow & Wilcox Co Southington Conn
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Dresden Mfg Co 2375 Walnut Av Long Beach 6 Cal
GOLDBLATT TOOL CO 1522 WALNUT KANSAS CITY 8 MO
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
Marshalltown Trowel Co 112 S 8th Av Marshalltown Iowa
Sand's Level & Tool Co 601 Clinton Clinton Ind
Sterling Wheelbarrow Co 7036 W Walker Milwaukee Wis
Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa
Thor Power Tool Co 175 N State Aurora Ill
Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass
Whiteman Mfg Co 3249 Casitas Av Los Angeles Cal

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Chicago Pneumatic Tool Co 6 E 44th New York 17 NY
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles Cal
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MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL
MASTER WOODWORKER MFG CO 409 E FORT DETROIT 26 MICH
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Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
PORTER CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
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STANLEY WKS 111 ELM AV NEW BRITAIN CONN
SYNTRON CO 618 LEXINGTON AV HOMER CITY PA
TEMPO PRODS CO 2075 E 65TH CLEVELAND 3 OHIO
Thor Power Tool Co State & Claim Aurora Ill
Tipp Mfg Co N Fourth St Tipp City Ohio
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Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass
Wallace (J D) & Co 136 S California Av Chicago 12 Ill
Wright Power Saw & Tool Co 292 Longbrook Av Stratford Conn

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RED DEVIL TOOLS 130 COIT IRVINGTON NJ
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
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Elwell-Parker Electric Co 4156 St Clair Av Cleveland 3 Ohio
Ford Tractors Div Ford Motor Co 2500 E Maple Rd Birmingham Mich
Four Wheel Drive Auto Co E 12th Clintonville Wis
Hough (Frank G) Co 811 Sunnyside Av Libertyville Ill
Industrial Truck Div Clark Equipment Co Battle Creek 41 Mich
International Harvester Co 180 N Michigan Chicago 1 Ill
Mack Trucks Inc Empire State Bldg New York 1 NY
Market Forge Co 35 Garvey Everett 49 Mass
Massey-Harris Co Racine Wis
Midland Co 1200 W Rawson Av South Milwaukee Wis
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BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Decorite Inc 2116 Peachtree Rd NW Atlanta Ga
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa
Logan Co 201 Cabel Louisville 6 Ky
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Standard Bronze Co 179 W 5th Bayonne 20 NJ
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Wooster Prods Inc Loehr & Wyant Wooster Ohio
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

TREADS, STAIR, STEEL

American Abrasive Metals Co 460 Coit Irvington NJ
American Mason Safety Tread Co 125 Perry Lowell Mass
Blaw-Knox Equipment Div Blaw Knox Co Farmers Bank Bldg Pittsburgh 30 Pa
Decatur Iron & Steel Co 2nd St W Decatur Ala
Fremont Rubber Co 165 McPherson Hwy Fremont Ohio
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore
International Steel Co 1321 Edgar Evansville 7 Ind
Logan Co 201 Cabel Louisville 6 Ky
Metal Crafters East Av at 18th NE Cedar Rapids Iowa
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
Western Foundry Co 2400 SW Water Av Portland 1 Ore
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

TREADS, STAIR, WOOD

Anderson Tully Co Box 28 Memphis Tenn
Angelina Hardwood Sales Co Box 1020 (Wilson St) Lufkin Tex
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark
Bradley Lumber Co of Ark Warren Ark
BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City 6 Mo
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS
Farley & Loetscher Mfg Co Dubuque Iowa
Farrin (M B) Lumber Co Spring Grove & Sta Av Cincinnati Ohio
Frost Lumber Industries Drawer 1125 Shreveport 90 La
Georgia-Pacific Plywood Co 600 N Capitol Way Olympia Wash
Goshen Sash & Door Co E Purl Goshen Ind
Hardwood Corp of America Box 1091 Asheville NC
Harris Mfg Co Grover at Walnut Johnson City Tenn
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Hyde Murphy Co Murphy Bldg Ridgeway Pa
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada
Marquart Millwork Co Oshkosh Wis
Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn
Memphis Oak Flooring Co Memphis Tenn
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Miller Bros Co Box 540 Johnson City Tenn
Morgan Co 520 Oregon Oshkosh Wis
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Phillips-Wood Prods Inc Box 699 Brookhaven Miss
Scottdale Wood Prods Inc Box 36 Scottdale Pa
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Spokane Sash & Door Co Spokane Wash
Triplett Lumber Co Inc Box 738 Lenoir NC
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va

TRENCHERS

ARPS CORP NEW HOLSTEIN WIS
Charles Machine Wks 625-30 Birch Perry Okla
Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
Kwik-Mix Co Port Washington Wis
Northwest Engineering Co 135 S LaSalle Chicago 3 Ill
OLIVER CORP 400 W MADISON CHICAGO 6 ILL
Schield Bantam Co 221 Park Waverly Iowa
SHERMAN PRODS INC 14 MILE & COOLIDGE RDS ROYAL OAK MICH
Unit Crane & Shovel Corp 6411 W Burnham Milwaukee 14 Wis
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

TRIM, METAL SIDING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY
MACKLANBURG DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn

TRUCK BODIES

Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill
Beall Pipe & Tank Corp 12005 N Burgard Portland Ore
Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa
Fordyce-Crossett Lumber Co Fordyce Ark
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich
Gaynor (E S) Lumber Co Sioux City Iowa
General Implement Corp Terminal Tower Cleveland 13 Ohio
Hercules Steel Prods Corp Galion Ohio
Indiana Body Co 615 S H St Richmond Ind
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MCCABE POWERS AUTO BODY CO 5900 N BROADWAY ST LOUIS 15 MO
MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY
Perfection Steel Body Co Galion Ohio
Pointer-Willamette Co 240 NE Oregon Portland 14 Ore
Schaefer Body 5009 Superior Cleveland 3 Ohio
Spokane Sash & Door Co Spokane Wash
Stahl Metal Prods 3490 W 140th Cleveland Ohio
Stoughton Cab & Body Co Stoughton Wis
Wentworth & Irwin Inc 128 NE Oregon Portland 14 Ore
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

TRUCK BODIES, CONCRETE, DUMP

Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich
Maxon Construction Co Inc 131 N Ludlow Dayton 2 Ohio
Supremix 401 Grace Adrian Mich

TRUCK BODIES, DUMP

Anthony Co Streator Ill
Daybrook Hydraulic Corp Bowling Green Ohio
Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich
Galion All-Steel Body Co Galion Ohio
Heil Co 3000 W Montana Milwaukee Wis
Hercules Steel Prods Corp Galion Ohio
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Marion Metal Prods Co Cheney Av at Otis Marion Ohio
Maxon Construction Co Inc 131 N Ludlow Dayton 2 Ohio
Perfection Steel Body Co Galion Ohio
Pointer-Willamette Co 240 NE Oregon Portland 14 Ore
St Paul Hydraulic Hoist Div Wood (Gar) Industries Inc 2207 University Av SE Minneapolis 14 Minn
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

TRUCK BODIES, ROLLOFF

Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich
Honeyman Mfg Co Portland Ore
R-B Company 1919 Guinotte Av Kansas City Mo
Schaefer Body 5009 Superior Cleveland 3 Ohio
Wentworth & Irwin Inc 128 NE Oregon Portland 14 Ore

TRUCKS, MOTOR

Autocar Co Lancaster Pike Ardmore Pa
Brockway Motor Co Inc 106 Central Av Cortland NY
CHEVROLET MOTOR DIV GENERAL MOTORS CORP GENERAL MOTORS BLDG DETROIT 2 MICH
Chrysler Corp 12200 E Jefferson Detroit 14 Mich
Diamond T Motor Car Co 4401 W 26th Chicago 23 Ill
DODGE BROS DIV CHRYSLER CORP 7900 JOSEPH CAMPAU AV DETROIT MICH
Federal Motor Truck Div Federal Fawick Corp 5780 Federal Av Detroit 9 Mich
FORD MOTOR CO DEARBORN MICH
Four Wheel Drive Auto Co E 12th Clintonville Wis
GMC Truck & Coan Div General Motors Corp Pontiac Mich
International Harvester Co 180 N Michigan Av Chicago 1 Ill
Kenworth Motor Truck Corp 8801 E Marginal Way Seattle 11 Wash
Mack Trucks Inc Empire State Bldg New York 1 NY
Marmon Herrington Co Inc 1545 W Washington Indianapolis 7 Ind
Milford Crane & Machine Co Milford Conn
Prime Mover Co Muscatine Iowa
Reo Motors Inc 1331 S Washington Lansing 20 Mich
Studebaker Corp 635 S Main South Bend 27 Ind
Ward La France Truck Corp Grand Central Av Elmira NY
White Motor Co 842 E 79th Cleveland 1 Ohio
Willys-Overland Motors Inc Wolcott Bldg Toledo 1 Ohio

TRUSSES, ROOF, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Bridge Div US Steel Sub Corp 525 William Penn Pl Pittsburgh 30 Pa
Bethlehem Steel Co 701 E Third Bethlehem Pa
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex

International Steel Co 1321 Edgar Evansville 7 Ind
Macomber Inc 1925 Tenth Canton Ohio
MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND
Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga
TRUSCON STEEL DIV REPULIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO

TRUSSES, ROOF, WOOD

AMERICAN ROOF TRUSS CO 1030 E 87TH CHICAGO ILL
Green Lumber Co Inc Magnolia St Laurel Miss
Illinois Lumber Mfg Co Inc Cairo Ill
McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill
RILCO LAMINATED PRODS INC 2680 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
Roof Structures Inc 45 W 45th New York NY
Super-Structures Inc 1015 S Jefferson Albert Lea Minn
Tacoma Lumber Fabricating Co Tacoma 1 Wash
TIMBER ENGINEERING CO 1319 18TH ST NW WASHINGTON 6 DC
Timber Structures Inc Box 3782 Portland 8 Ore
Timber-Tech Corp Box 327 Lebanon Ore
Unit Structures Inc Peshtigo Wis
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

TUBS, LAUNDRY

Alberene Stone Corp of Va 417 Fourth Av New York NY
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
ELJER CO FORD CITY PA
General Ceramics & Steatite Corp Sanitary Ware Div 21 Crows Mill Rd Keasbey NJ
KOHLER CO KOHLER WIS
RICHMOND RADIATOR CO BOX 111 METUCHEN NJ
Ruslander & Sons Inc 18 Letchfield Buffalo 13 NY
Standard-Elsmere Granite Co 1754 N Spaulding Chicago Ill
Vermont Soapstone Co Perkinsville Vt

UNITS, UTILITY

Dwyer Prods Corp Calumet & Holiday Michigan City Ind
Earle Kitchen Unit Co 116 E 63rd New York 21 NY
Rock Island Millwork Co Rock Island Ill

VALLEYS, METAL, ROOF

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801-39 West Av S La Crosse Wis
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Central Prods Co 57 Forest Battle Creek Mich
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Continental Steel Corp 1109 S Main Kokomo Ind
FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA
Gary Pioneer Steel Corp Gary Ind
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
Illinois Zinc Co 2959 W 47th Chicago 32 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Newport Steel Corp 9th & Lowell Newport Ky
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Penn Supply & Metal Corp 1831 N 5th Philadelphia Pa
Potts Farrington Co 1224 Cherry Philadelphia 7 Pa
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Tennessee Coal & Iron Div United States Steel Corp Fairfield Ala
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa
Wheeling Corrugating Co Wheeling W Va

VALVES, PLUMBING, HEATING, ETC

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA
BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL
Boston Brass Co Inc 137 Beacon Waltham 54 Mass
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn
Bristol Co Waterbury Conn
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Coyne & Delaney Co 828 Kent Av Brooklyn 5 NY
CRANE CO 836 S MICHIGAN AV CHICAGO ILL
Detroit Brass & Malleable Wks 100 S Campbell Detroit 9 Mich
Dick Bros Inc 3rd & Buttonwood Reading Pa
Dole Valve Co 1923 Carroll Av Chicago 12 Ill
DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY
Durst Mfg Co 409 Lafayette New York 3 NY
Eddy Valve Co Box 363 Waterford NY
ELJER CO FORD CITY PA
Fairbanks Co 395 Lafayette New York 3 NY
Harvey Machine Co Inc 19200 S Western Av Torrance Cal
Hoffman Specialty Co 1001 York Indianapolis 7 Ind
Imperial Brass Mfg Co 1200 W Harrison Chicago Ill
Jenkins Bros 100 Park Av New York 17 NY
Locke Regulator Co Salem Mass
McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill
MINNEAPOLIS HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
Mueller Co Decatur Ill
Parker (Charles) Co 50 Hanover Meriden Conn
Perfex Corp 500 W Oklahoma Milwaukee Wis
Powers Regulator Co 3400 Oakton Skokie Ill
Price Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal
Rockford Brass Wks 700 S Main Rockford Ill
Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass
Schaible Co 1086 Summer Cincinnati 4 Ohio
Sloan Valve Co 4300 W Lake Chicago Ill
Taco Heaters Inc 137 South Providence RI
THRUSH (H A) CO PERU IND
Trane Co 3rd & Cameron LaCrosse Wis
Triplex Heating Specialties Co 242-68 Grant Peru Ind
Walworth Co 60 E 42nd New York 17 NY
Zurn (J A) Mfg Co Erie Pa

VANES, WEATHER

Bantam Mfg Co Inc 290 Rutherford Av Boston 11 Mass
Burkett Lightning Rod Co Park Av & Vine Fremont Ohio
Davis & Siehl Co 3042 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio
Electra Protection Co 11 N Pearl Albany 7 NY
Fiske (J W) Iron Wks 87 Park Pl New York 7 NY
INDEPENDENT PROTECTION CO INC 1603-09 S MAIN GOSHEN IND
James Mfg Co Fort Atkinson Wis
Morgan Wightman Supply Co 1541 Salzman Av St Louis Mo
National Lightning Protection Co 2340 Eugene St Louis 3 Mo
SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY
Starline Inc 300 W Front Harvard Ill
Tennessee Fabricating Co 1490 Grimes Memphis Tenn
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Whitehall Metal Studios Inc 469 E Ohio Chicago Ill

VAPOR BARRIERS

Air-O-Cel Co 22000 Woodward Av Detroit 20 Mich
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Angier Corp Fountain St Framingham Mass
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA
INFRA INSULATION INC 10 MURRAY NEW YORK NY
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Kimberly-Clark Corp 128 N Commercial Neenah Wis
Meadows (W R) Inc 2 Kimball Elgin Ill
Old American Roofing Mills 7600 Truman Rd Kansas City Mo
Protective Papers Inc Union Ill
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY
RICHKRAFT CO 510 N DEARBORN CHICAGO 10 ILL
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

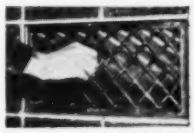
VENEERS, HARDWOOD

Aetna Plywood & Veneer Co 1732 Elston Av Chicago 22 Ill
Albany Plywood Co Albany Ore
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
Braund Harmon Co Wabeek Bldg Birmingham Mich
HIGGINS INC BOX 8001 NEW ORLEANS LA
Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich
Nickey Bros Inc 2700 Summer Av Memphis Tenn
Pearl City Plywood Co Inc 1 Elam Jamestown NY
Plytex Corp 1731 Elston Av Chicago 22 Ill
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Weber Veneer & Plywood Co Shawano Wis

VENTILATORS, FOUNDATION

Adams Co Box 268 Dubuque Iowa
Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City 6 Okla
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Arex Co 612 N Michigan Av Chicago 11 Ill
BENNETT-IRELAND INC 23 STATE NORWICH NY
BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY
HAMLIN PRODS INC BOX 2016 LITTLE ROCK ARK
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH
LESLIE WELDING CO INC 2943 W CARROLL AV CHICAGO 12 ILL
MACKLANBURG DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

M-D FOUNDATION VENT
WITH ADJUSTABLE SHUTTER



SCREEN WIRE MEETS FHA SPECS

8" x 16" HEAVY DIE CAST GRILLE

See Pages 14-17

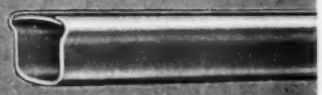
SOLD BY HARDWARE & LUMBER DEALERS

MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

MAJESTIC CO HALL ST HUNTINGTON IND
Moore Specialties Inc Div Insul Mastics Lab 3152 N Miami Av Miami Fla
Morgan Wightman Supply Co 1541 Salzman Av St Louis Mo
Sin Jin Prods Co 5236-40 Fairlawn Av Baltimore 15 Md
Skillman Hdwe Co Edgewood Av Trenton 4 NJ
Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill
Sweet (A L) Iron Wks 151 Glenwood Av Medina NY

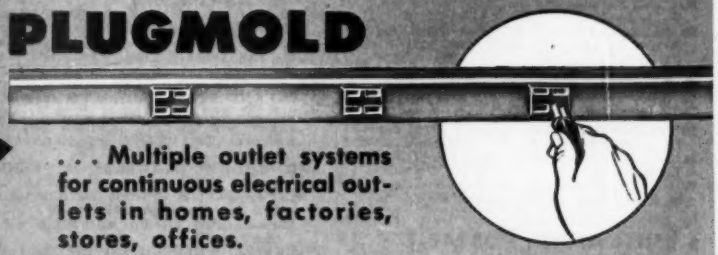
SPECIFY Wiremold's big 4 for better homes and buildings!

WIREMOLD One-Piece Surface Raceways



. . . safest, surest way to carry electrical power anywhere—right on the surface!

PLUGMOLD



. . . Multiple outlet systems for continuous electrical outlets in homes, factories, stores, offices.

Four sizes with capacities up to 10 No. 6 conductors.

PANCAKE Overfloor Raceways

. . . safest, easiest way to carry power or communication lines overfloor to the point of use.

WIREMOLD Fluorescent Units

. . . for cove, cornice, or valance lighting; for all types of supplementary lighting, such as display cases, shelves, etc.

All over the country, progressive architects and builders are specifying ***Wiremold's BIG 4*** *— because the* ***BIG 4*** *offer the best way to wire most buildings and the only way to wire many buildings. Write today for full information — see how* ***Wiremold's BIG 4*** *put extra sales appeal into all your homes and buildings!*

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Tennessee Fabricating Co 1490 Grimes Memphis Tenn
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Vestal Mfg Co Box 152 Sweetwater Tenn
Weatherguard Service Inc 564 Jackson Av New York 55 NY

VENTILATORS, GLASS BLOCK, WALL

Airolite Co Marietta Ohio
AIR RECTIFIERS INC 3734 SOUTHPORT AV CHICAGO 13 ILL
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Arex Co 612 N Michigan Av Chicago 11 Ill
Blue M Electric Co 306 W 69th Chicago 21 Ill
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Consumers Co 79 W Monroe Chicago 3 Ill
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Kaptur (Joseph J) & Co 121st & 90th St Palos Park Ill
KIMBLE GLASS CO SUBSID OWENS-ILLINOIS GLASS CO BOX 1035 TOLEDO 1 OHIO
Modern Stainless Specialties Co 306 W 69th Chicago 21 Ill
Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Winco Ventilator Co 4725 Goodfellow St Louis 20 Mo
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

VENTILATORS, PORTABLE

Aerovent Fan Co Inc Ash & Beacon Piqua Ohio
HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY

VENTILATORS, ROOF REVOLVING

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Danzer Metal Wks Hagerstown Md
Ilg Electric Ventilating Co 2850 N Pulaski Av Chicago 41 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
James Mfg Co Fort Atkinson Wis
Klauer Mfg Co 9th & Washington Dubuque Iowa
Louden Machinery Co 1120 Broadway Fairfield Iowa
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN
Simplex Brooder Stove Co 220 Grandville Av SW Grand Rapids 2 Mich
Sioux Steel Co Sioux Falls SD
Starline Inc 300 W Front Harvard Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Warner Ventilator Co 217 E Spring LaGrange Ind

VENTILATORS, ROOF, WALL & WINDOW

Adams Co Box 268 Dubuque Iowa
Aerovent Fan Co Inc Ash & Beacon Piqua Ohio
Air Devices Inc 185 Madison Av New York 16 NY
Airmaster Corp 4317 Ravenswood Av Chicago 13 Ill
Airolite Co Marietta Ohio
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Blower Corp Div American Radiator & Standard Sanitary Corp Detroit 32 Mich
American Sheet Metal Wks 325 N Alexander New Orleans La
Arex Co 612 N Michigan Av Chicago 11 Ill
Atkinson Mfg Co 502 S James Ludington Mich
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Berns Mfg Co 3050 N Rockwell Chicago 18 Ill
Brower Mfg Co Box 251 Quincy Ill
Busch (A G) & Co 2632 N Central Av Chicago 39 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Chelsea Fan & Blower Co Inc 639 South Av Plainfield NJ
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Damp Vent Co 210 17th Box 203 Bettendorf Iowa
Diehl Mfg Co 1185 Finderne Av Somerville NJ
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO
Farwell Ozmun Kirk & Co 108 Fairfield Av W St Paul 1 Minn
FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY
Franklin Equipment Co Monticello Iowa
HAMLIN PRODS INC BOX 2016 LITTLE ROCK ARK
Harris Inc 200 E Long Columbus 15 Ohio
HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY
Hohmann & Barnard Inc 204 E 33rd New York 16 NY
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex
Hudson (H D) Mfg Co Dept D 16 589 E Illinois Chicago 11 Ill
Ideal Ventilator Co 160 Atlantic Av Providence 7 RI
Ilg Electric Ventilating Co 2850 N Crawford Av Chicago 41 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
James Mfg Co Fort Atkinson Wis
Kernchen Co 612 N Michigan Av Chicago 11 Ill
Krauser-Boyd 553 River Rd North Tonawanda NY
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis
Larson (Chas O) Co Av "G" & C&NW Ry Sterling Ill
LESLIE WELDING CO INC 2943 W CARROLL AV CHICAGO 12 ILL
LAU BLOWER CO 2001 HOME AV DAYTON 7 OHIO
LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH
Louden Machinery Co 1120 Broadway Fairfield Iowa
Modern Stainless Specialties Co Div Modern Electric Laboratory 306-08 W 69th Chicago 21 Ill
National Screen Co Inc Madison Av Extended Suffolk Va
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
Paasche Airbrush Co 1909 W Diversey Pkwy Chicago 14 Ill
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
Plymouth Stamped Metal Co Galion Ohio
PRYNE & CO INC 140 N TOWNE POMONA CAL
Rene Craft Prods 406 Linden Av Wilmette Ill
Riesner Vent Brick Corp 353 E 78th New York 21 NY
Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn
St Louis Blow Pipe & Heater Co 1948 N 9th St Louis 6 Mo
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN
SAMCOE (W J) IRON CO 917 MILITARY RD KENMORE 17 NY
Schumacher (F E) Co 200 Mill Hartville Ohio
Seco Lite Mfg Co 4916 Easton Av St Louis Mo
Signal Electric Mfg Co 1821 13th Menominee Mich
Smith (F A) Mfg Co 255 N Union Rochester 5 NY
Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill
Starline Inc 300 W Front Harvard Ill
Stewart Mfg Co 3205-7 E Washington Indianapolis 1 Ind
Sutton (O A) Corp 1812 W 2nd Wichita Kan
Swartwout Co 18568 Euclid Av Cleveland 12 Ohio
Trane Co 3rd & Cameron LaCrosse Wis
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Uno Ventilator Co 1236 Eastern Av Malden 48 Mass
Van Noorden (E) Co 100 Magazine Boston 19 Mass
Vestal Mfg Co Box 152-A Sweetwater Tenn
Wayne Agricultural Wks Inc Box 1006 Goldsboro NC
Western Appliance Co Inc 5646-50 Grand River Av Detroit 8 Mich
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Willis Steel Corp Box 149 Galesburg Ill
Winco Ventilator Co 4725 Goodfellow St Louis Mo

VERMICULITE

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Baker-Thomas Line & Cement Co Phoenix Ariz
California Zonolite Co Sacramento Cal
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
Intermountain Insulation Co Salt Lake City Utah
Mikolite Sales Corp Encampment Wyo
Robinson Insulation Co Box 1419 Great Falls Mont
Schundler (F E) & Co Inc 504 Railroad Joliet Ill
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Texas Vermiculite Co 303 Brazos Austin Tex
Vermiculite Prods Corp Washington DC
Vermiculite Prods Inc 515 Madison Kansas City Mo
Western Mineral Prods Co 1720 Madison NE Minneapolis Minn
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

VISES

Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill
Athol Machine & Foundry Co 82 South St Athol Mass
Billings & Spencer Co 12 Laurel Hartford 1 Conn
Birtman Electric Co 4140 W Fullerton Chicago 39 Ill
Capewell Mfg Co 60 Governor Hartford 2 Conn
Champion Blower & Forge Co 1947 Charlotte Lancaster Pa
Champion Hardware Co 3300 Miller Geneva Ohio
Columbian Vise & Mfg Co 9020 Bessemer Av Cleveland 4 Ohio
Desmond-Stephan Mfg Co 425 S Walnut Urbana Ohio
General Hdwe Co 3618 W Pierce Milwaukee 4 Wis
General Hdwe Mfg Co Inc 80 White New York 13 NY
Graham (John H) & Co Inc 105 Duane New York 8 NY
Grand Specialties Co 3101 W Grand Av Chicago 22 Ill
Littletown Hdwe Co Littletown Pa
Millers Falls Co Wells & Devens Greenfield Mass
Milwaukee Hay Tool Co 2773 S 29th Milwaukee 46 Wis
North Bros Mfg Co 228 Lehigh Av Philadelphia 33 Pa
Parker (Charles) Co 50 Hanover Meriden Conn
Peck, Stow & Wilcox Co Mill St Southington Conn
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill
RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL
St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn
SARGENT & CO WATER ST NEW HAVEN CONN
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Tesco Inc 110 S Norfolk Tulsa Okla

WALL COPING

Acme Brick Co Box 425 Fort Worth Tex
American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio
Bowerston Shale Co Bowerston Ohio
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
Clay City Pipe Co Uhrichsville Ohio
Columbia Pipe Co Columbia SC
Dennison Sewer Pipe Corp 3334 Prospect Av Cleveland 14 Ohio
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver 1 Colo
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo
Evans Pipe Co Uhrichsville Ohio
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah
Iowa Pipe & Tile Co Des Moines Iowa
Junction City Clay Co 3334 Prospect Av Cleveland 15 Ohio
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio
LACLEDE CHRISTY 2801 HEREFORD ST LOUIS 9 MO
Lehigh Sewer Pipe & Tile Co Box 728 Fort Dodge Iowa
Logan Clay Prods Co Logan Ohio
Lovell Clay Prods Co Lovell Wyo
Minneapolis Builders Supply Co 927 Second Av Minneapolis Minn
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL
Owensboro Sewer Pipe Co Owensboro Ky
Patton Clay Mfg Co Foot of Terra Cotta Av Patton Pa
Pomona Terra-Cotta Co Pomona NC
Red Wing Sewer Pipe Corp Box 115 Red Wing Minn

Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio
Streator Drain Tile Co Streator Ill
Superior Clay Corp Uhrichsville Ohio
Texas Vitrified Pipe Co Box 111 Mineral Wells Tex
Union Clay Mfg Corp Upper Broad Binghamton NY
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio
Washington Brick & Lime Co Box 2198 Spokane 8 Wash
What Cheer Clay Prods Co What Cheer Iowa
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

WALLBOARD, ALUMINUM FOIL COVERED

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

WALLBOARD, ASBESTOS CEMENT

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
HOMASOTE CO 1935 HARVEY RD TRENTON 3 NJ
JOHNS-MANVILLE CORP 22 E 40TH BOX 290 NEW YORK 16 NY
KEASBEY & MATTISON CO BUTLER AV AMBLER PA
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

WALLBOARD, FIBER CANE

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL

WALLBOARD, FIBER INSULATING

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Barclay Mfg Co 385 Gerard Av New York NY
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
Cole Mfg Co Box 2657 Memphis 2 Tenn
East Coast Tileboard Corp 41-59 Wycoff Av Brooklyn 37 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Plywoods Inc 2710 Throop Chicago Ill
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Simpson Logging Co White Bldg Seattle 2 NY
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UPSON CO 43 UPSON PT LOCKPORT NY
WOOD CONVERSION CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

WALLBOARD, FIBER, WATERPROOFED

UPSON CO 43 UPSON PT LOCKPORT NY

WALLBOARD, FIBER, WOOD

A & F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Cornell Paperboard Prods Co 230 N Michigan Chicago 1 Ill
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY
Fir-Tex Insulating Board Co US Natl Bank Bldg Portland Ore
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forest Fiber Prods Corp Box 68 Forest Grove Ore
Hardboard Fabricators 59 Branch St Louis 7 Mo
HOMASOTE CO FERNWOOD RD TRENTON 3 NJ
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN
JOHNS-MANVILLE CORP BOX 290 22 E 40TH NEW YORK 16 NY
Lehwood Corp 1703 Ironwood Dr South Bend Ind
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
National Plywoods Inc 2710 Throop Chicago Ill
National Tileboard Corp 1314 Blondell Av New York 61 NY
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Simpson Logging Co White Bldg Seattle 1 Wash
SOUTHERN PLASWOOD CORP BOX 123 HOPE ARK
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky
UNITED STATES PLYWOOD CORP 55 WEST 44TH NEW YORK 36 NY
UPSON CO 43 UPSON PT LOCKPORT NY
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo
WOOD CONVERSION CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

WALLBOARD, GYPSUM

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Blue Diamond Corp 1650 S Alameda Los Angeles Cal
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Grand Rapids Plaster Co Peoples National Bank Bldg Grand Rapids Mich
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill
Schumacher Wall Board Corp South Gate Cal
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

WALLBOARD, LEATHER FINISH

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bestile Mfg Co State & Sultana Ontario Cal
Hardboard Fabricators 59 Branch St Louis 7 Mo
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL
Miratile Mfg Co 600 W 81st Chicago 20 Ill
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo

WALLBOARD, MARBLE FINISH

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Barclay Mfg Co 385 Gerard Av New York NY
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
MARSH WALL PRODS INC 5432 MAIN DOVER OHIO
Miratile Mfg Co 600 W 81st Chicago 20 Ill
Prestile Mfg Co 5850 W Ogden Av Chicago Ill
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

WALLBOARD, PAPER

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
Cornell Paperboard Prods Co 230 N Michigan Av Chicago 1 Ill
Fleming & Sons Inc 1120 E 12th Dallas Tex
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
UPSON CO 43 UPSON PT LOCKPORT NY

WALLBOARD, WOODGRAIN FINISH

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA
FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO
Gibbs Boardtile Corp 615 N Aberdeen Chichicago 22 Ill
HOMASOTE CO FERNWOOD RD TRENTON NJ
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
Prestile Mfg Co 5850 W Ogden Av Chicago Ill
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

WALLPAPER

Birge Co Inc 390 Niagara Buffalo 1 NY
Buffalo Wallcraft Co Inc Buffalo 7 NY
Buffalo Wall Paper Mfg Co Tonawanda NY
Century Wallpaper Mills Decatur Ill
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Di-Noc Co 1700 London Rd Cleveland Ohio
Globe Mills Inc 4860 N Halsted Chicago Ill
Ideal Co Waco Tex
Imperial Paper & Color Corp Glens Falls NY
Joliet Wall Paper Mills Joliet Ill
Kimberly-Clark Corp 128 N Commercial Neenah Wis
Lennon Wallpaper Co 807 Fourth Av Joliet Ill
Midwest Wall Paper Co Joliet Ill
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Plattsburg Wallpaper Co Plattsburgh NY
Prager Co Worcester Mass
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Sandura Co Inc Architects Bldg 17th & Samsom Philadelphia 3 Pa
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio
Stamford Wallpaper Co Inc Taylor & Manin Stamford Conn
Standard Coated Prods Inc 67 W 44th New York 36 NY
Star-Peerless Wallpaper Mills Joliet Ill
Stotter Wallpaper Mills Crystal Lake Ill
Trimz Co Inc Merchandise Mart Plaza Chicago Ill
United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill
Varlar Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill
Watson (Geo E) Co 417 S Wabash Av Chicago Ill
York Wall Paper Co 750 Linden Av York Pa

WALLPAPER, READY-PASTED

Imperial Paper & Color Corp Glens Falls NY
Preservative Paint Co 5410 Airport Way Seattle 8 Wash
Trimz Co Inc Merchandise Mart Plaza Chicago 54 Ill
United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill

WALLPAPER REMOVERS

BARR (W M) & CO BOX 3518 MEMPHIS 6 TENN
Boyer Chemical Laboratory Co 2232 S Wabash Chicago 16 Ill
Consumers Glue Co 1515 N Hadley St Louis 6 Mo
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn
Glidden Co Madison & Berea Rd Cleveland 2 Ohio
Le Page's Inc 40 Swanson Goucester 41 Mass
Linck (O E) Co Inc Route 46 & Valley Rd Clifton NJ
Patent Cereals Co Bradford St Geneva NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

Pyramid Process Co Inc East Rochester NY
RED DEVIL TOOLS 130 COIT IRVINGTON NJ
Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Tamms Industries Inc 228 N LaSalle Chicago Ill
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn

WARDROBES

Austral Sales Corp 101 Park Av New York 17 NY
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N CANTON 5 OHIO
Carnahan Mfg Co Loogootee Ind
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Decorative Cabinet Corp 261 5th Av New York 16 NY
Deluxe Metal Furniture Co 402 Struthers Warren Pa
Equipment Mfg Co Inc 1208-10 E Ninth Kansas City 6 Mo
Gardner Mfg Co 2740 Barstow Horicon Wis
Kenarobe Corp 8721 Darby Av Northridge Cal
Lee Metal Prods 918 E Fort Baltimore 30 Md
Lyon Metal Prods Inc 25 Montgomery Aurora Ill
Marquart Millwork Co 50 Cenpe Oshkosh Wis
MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY
Midwest Mfg Co Galesburg Ill
Morgan Co 520 Oregon Oshkosh Wis
Revolvodor International Inc 420 Market San Francisco 11 Cal
Richards-Wilcox Mfg Co 220 Third Aurora Ill
Weisberg-Baer Co 405 26th Av Long Island City 2 NY
Woodcraft Mfg Co Farmington Minn

WASHERS, CLOTHES

Altorfer Bros Co East Peoria Ill
Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio
Automatic Washer Co Newton Iowa
Bendix Home Appliances Inc Div Avco Mfg Co 3300 W Sample South Bend Ind
Blackstone Corp 1032-88 Allen St Ext Jamestown NY
Conlon Bros Mfg Co 4512 W Fillmore Chicago 50 Ill
Conlon-Moore Corp 1824 S Laramie Cicero Ill
CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO
Easy Washing Machine Corp Solar & Spencer Syracuse 1 NY
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY
General Implement Corp Terminal Tower Cleveland 13 Ohio
Hamilton Mfg Co 1316 18th Two Rivers Wis
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH
Landers Frary & Clark Center St New Britain Conn
Maytag Co Newton Iowa
Monitor Equipment Corp 640 W 249th New York 71 NY
Naxon Utilities Corp 3600 W Touhy Av Chicago 45 Ill
Norge Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich
Speed Queen Corp Ripon Wis
THOR CORP 2115 S 54TH AV CHICAGO 50 ILL
Universal Major Elec Appliance Co Box 119 Lima Ohio
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA
Whirlpool Corp St Joseph Mich

WATER CONDITIONERS

American Water Softener Co 4th & Lehigh Av Philadelphia 33 Pa
Calgon Inc 323 Fourth Av Pittsburgh Pa
Culligan Inc 1657 Shermer Av Northbrook Ill
Elgin Softener Corp 142 N Grove Av Elgin Ill
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Permutit Co 330 W 42nd New York 36 NY
Uniflow Mfg Co 1525 E Lake Rd Erie Pa
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind

WATER SUPPLY SYSTEMS

Aermotor Co 2500 Roosevelt Rd Chicago 8 Ill
Aurora Pump Co 789 Dearborn Aurora Ill
Baker Mfg Co 133 Enterprise Evansville Wis
Barnes Mfg Co 651 N Main Mansfield Ohio
Chicago Pump Co 2336 W Wolfram Chicago Ill
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio
Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY
Deming Co 42 Broadway Salem Ohio
Dempster Mill Mfg Co 711 S 6th Beatrice Neb
Edwards Co Sanford NC
Everite Pump & Mfg Co Inc 617-19 N Price Lancaster Pa
Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill
FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND
Gardner-Denver Co 100 Williamson Quincy Ill
Goulds Pumps Inc 75 Fall Seneca Falls NY
GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL
Heller-Aller Co Napoleon Ohio
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
Hummer Mfg Co Springfield Ill
Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn
Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa
McDonald (A Y) Mfg Co 1200 Pine Dubuque Iowa
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
Piqua Machine & Mfg Co 441 S College Piqua Ohio
Red Jacket Mfg Co 1051 S Rolff Davenport Iowa
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
Shetler (M) & Sons Co Clio Mich
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind
Worthington Corp S Second St Plainfield NJ

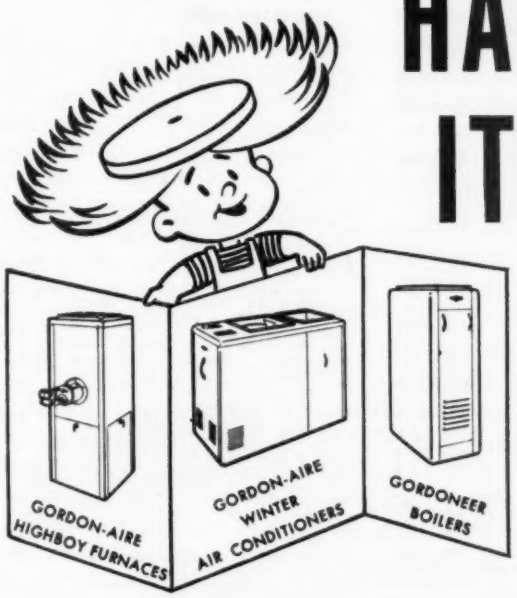
WATERPROOFING COMPOUNDS, BASEMENT, CISTERN

Abesto Mfg Corp 131 Wabash Michigan City Ind
Adensite Co 37-19 23rd St Long Island City NY
American Fluresit Co 4011 Red Bank Rd Cincinnati 27 Ohio
AMERICAN STA-DRI CO 4019 38TH ST BRENTWOOD MD
Anti Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY
Belmont Smelting & Refining Wks 330 Belmont Av Brooklyn 7 NY
Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass
Camp Chemical Co Inc 170 Second Av Brooklyn NY
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO
Ceresit Waterproofing Corp 3226 Shields Av Chicago 7 Ill
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Coopers Creeck Chemical Corp West Conshohocken Pa
Coprox Sales Inc 1270 6th Av New York City NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Evercrete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forman-Ford & Co 111 S Second Minneapolis 1 Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Haynes Prods Co 4007 Farnam Omaha 3 Nebr
Hollingshead (R M) Corp 844 Cooper Camden NJ
Horn (A C) Co Tenth & 44th Av Long Island 1 NY
KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va
Materials & Treatment Co 2326 N Third Milwaukee 12 Wis
Nova Sales Inc Trenton 3 NJ
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Prima Prods Inc 10 E 40th New York 16 NY
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Ranetite Mfg Co 1917 S Broadway St Louis Mo
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind
Rox Prods Co 9930 Freeland Detroit 27 Mich
Sika Chemical Corp 35 Gregory Av Passaic NJ
Smooth-On Mfg Co 568-74 Communipaw Av Jersey City 4 NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Technical Supply Co 1911 University Av Palo Alto Cal
Truscon Laboratories Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co 502 E Locust Des Moines 9 Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
Vita-Var Corp 10 Commerce Ct Newark NJ
Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

WATERPROOFING, INTEGRAL

Adensite Co Inc 37-19 23rd St Long Island City NY
American Bitumuls & Asphalt Co 200 Bush San Francisco Cal
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 29 Ohio
AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Blue Ridge Talc Co Inc Henry Va
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Coprox Sales Inc 1270 Sixth Av New York City NY
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Evercrete Corp 424 W 42nd New York 36 NY
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ
Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ
Lehon Co 4425 S Oakley Av Chicago 9 Ill
Linde Air Prods Co 30 E 42nd New York 17 NY
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va
MEDUSA PORTLAND CEMENT CO 1000 MIDLAND BLDG CLEVELAND 15 OHIO
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn
OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Prima Prods Inc 10 E 40th New York NY
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Ranetite Mfg Co 1917 S Broadway St Louis Mo
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 8 Pa
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Toch Bros Inc 2600 Richmond Ter Staten Island NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

YOU NAME IT... ROBERTS-GORDON HAS IT!



- Nationally-Known Products – AGA Approved
- Complete line of gas-fired Home Heating Equipment
- Quality Designed, Engineered, Produced
- Simple Installation plus Minimum Service

PLUS the famous patented Roberts-Gordon Spreader Flame Gas Burner . . . *"The standard of the industry"* . . . the patented way of burning gas efficiently and economically.

Before You Install . . . SEE

ROBERTS-GORDON

Manufacturers of Gas Heating Equipment — GORDON — for Over a Quarter of a Century

Spreader-Flame

BUFFALO 6, N. Y. DEPARTMENT AB

Ez-Way stairways

3 ways to make more profits

The disappearing stairways famous for easy attic access—and easy sales!

With quality features proven to satisfy the most particular buyers—at a low, sales compelling price. Packaged COMPLETE and ready to install.

EZ-WAY
Folding Attic Stairway

Ideal for remodeling or new construction. Touch controlled, balanced spring action—no troublesome counterweights. Non-slip treads and handrail. Sturdily built. Handsome, modern styling.

SPECIFICATIONS	Model 18	Model 22 (heavy duty)
Rough opening	26" x 54"	30" x 62"
Stringers	4"	5"
Steps	4" x 18"	5" x 22"
Run	5"	6"
Rise	9"	9"
Ceiling Heights	7' to 9'	7' to 10'

EZ-WAY
Sliding Stairway

Developed especially for truss roof construction and the mass housing market. When not in use as a stairway, it is easily demounted for use as a utility ladder. Simplest, safest stairway in its low price range!

SPECIFICATIONS—Model 20

Finished opening	24" x 36"
Stringers	1½" x 3½"
Rise	10"
Steps	4" x 15"
Maximum floor to floor height	9'
Maximum vertical clearance in attic	4' 6"
Clearance on attic floor	6' 1"

EZ-WAY
Economy Ladder

Costs little more than a large step ladder, **requires no alteration to the attic scuttle hole.** Rigidity and sure-footing are built-in safety features. Easily operated by a woman or child.

SPECIFICATIONS—Model 15

Any opening 18" x 24" or larger

Maximum floor to floor height	9'2"
Minimum vertical clearance in attic	4'7"
Clearance on attic floor	4' 1½"

Sell the stairway with the industry-wide reputation for creating more sales with more customer satisfaction—EZ-Way stairway units.

Write for name of nearest distributor

EZ-WAY SALES, Inc.

BOX 300 • ST. PAUL PARK, MINN.

Vita-Var Corp 10 Commerce Newark NJ
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich
Weatherguard Service Inc 564 Jackson Av New York 55 NY
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio

WATERPROOFING, MEMBRANE

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY
Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass
CAREY (PHILIP) MFG CO LOCKLAND CINCINNATI 15 OHIO
Celadri Corp of New York Columbus Av North Bellmore NY
Evercrete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
JOHNS-MANVILLE CORP 22 E 40TH BOX 290 NEW YORK 16 NY
KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa
Lehon Co 4425 S Oakley Av Chicago 9 Ill
Minneapolis Builders Supply Co 927 Second Av Minneapolis 3 Minn
Minwax Co Inc 11 W 42nd St New York NY
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pressite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Ranetite Mfg Co Inc 1917 S Broadway St Louis Mo
Rubber & Plastic Coated Prods Co Inc 30 Rockefeller Plaza New York NY
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Texas Co 135 E 42nd New York 17 NY
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY
Tremco Mfg Co 8701 Kinsman Rd Cleveland 4 Ohio
Vita-Var Corp 10 Commerce Ct Newark NJ
Wasco Flashing Co 87 Fawcett Cambridge Mass
Weatherguard Service Inc 564 Jackson Av New York 55 NY

WATERPROOFING, METALLIC

AMERICAN SISALKRAFT CORP ATTLEBORO MASS
Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill
Connelly Inc 3152 S California Chicago 8 Ill
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Evercrete Corp 424 W 42nd New York 36 NY
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Lehon Co 4425 S Oakley Av Chicago 9 Ill
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn
Ranetite Mfg Co Inc 1917 S Broadway St Louis Mo
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio

WATERPROOFING, SURFACE-TYPE

Abesto Mfg Corp 131 Wabash Michigan City Ind
Adensite Co Inc 37-19 23rd Long Island City NY
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 29 Ohio
AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Armor Laboratories Inc Commercial & Doran Glendale 3 Cal
BARRETT DIV ALLIED CHEMICAL 7 DYE CORP 40 RECTOR NEW YORK 6 NY
BIRD & SON INC 47 WILSON EAST WALPOLE MASS
Breinig Bros Inc 223 Adams Hoboken NJ
Cabot (Samuel) Inc 141 Milk Boston 9 Mass
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Camp Chemical Co Inc 170 Second Av Brooklyn NY
Camp Co Inc 6958 S State Chicago 21 Ill
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO
Cemix Co 433 Maple Av Downers Grove Ill
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill
CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Con-Cor Co 4550 Main Kansas City Mo
Coopers Creek Chemical Corp West Conshohocken Pa
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Evercrete Corp 424 W 42nd New York 36 NY
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY
Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Glastic Corp North Kansas City 16 Mo
Glidden Co Berea Rd at Madison Cleveland Ohio
Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY
Hydrozo Prods Inc Madison 5 Wis
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY
KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ
Lastik Prods Co Inc Keenan Bldg Pittsburgh 22 Pa
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Lehon Co 4425 S Oakley Chicago 9 Ill
Linde Air Prods Co 30 E 42nd New York 17 NY
Lockrey Co Southampton NY
Lowebco Inc 1525 E 53rd Chicago Ill
Mar-Kay Mfg Co 2715 S Second St Louis Mo
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn
Minwax Co Inc 11 W 42nd New York 18 NY
MIRACLE ADHESIVE CORP 214 E 53RD NEW YORK 22 NY
Mixtite Corp North Haven Conn
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY
Pavinoleum Inc 1239 St Nicholas Av New York 32 NY
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Pressite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Prima Prods Inc 10 E 40th New York 17 NY
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Protective Papers Inc Union Ill
Ranetite Mfg Co 1917 S Broadway St Louis Mo
Reardon Co 7501 Page Av St Louis 14 Mo
Rocbond Prods Co Van Wert Ohio
Rohloff & Co 918 N Western Av Los Angeles 27 Cal
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY
Rust-Oleum Corp 2425 Oakton Evanston Ill
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Steelcote Mfg Co 3418 Gratiot Av St Louis 3 Mo
Stonhard Co 1306 Spring Garden Philadelphia 3 Pa
Stopall Waterproofing Mfrs Inc 212 Commerce Bldg Kalamazoo Mich
Sullivan Co 212 E Trigg Memphis 2 Tenn
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Texas Co 135 E 42nd New York 17 NY
Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich
Tufcrete Co Inc 502 E Locust Des Moines Iowa
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
Vita-Var Corp 10 Commerce Ct Raymond Commerce Bldg Newark NJ
Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass
Wesco Waterpaints Inc Matteson Ill
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
X-Pando Corp 43-15 36th Long Island City 1 NY

WATERPROOFING, TRANSPARENT

Adensite Co Inc 37-19 23rd Long Island City NY
AMERICAN CEMENT PRODS 7306 PURITAN AV DETROIT MICH
American Fluresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio
AMERICAN . STA-DRI CO 4019 38TH BRENTWOOD MD
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ
Cabot (Samuel) Inc 1271 Oliver Bldg Boston 9 Mass
CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA
Celadri Corp of New York Columbus Av North Bellmore NY
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill
COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH
Con-Cor Paint Co 45th & Main Kansas City Mo
Consumers Co 79 W Monroe Chicago 3 Ill
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY
Coopers Creek Chemical Corp River Rd West Conshohocken Pa
Evercrete Corp 424 W 42nd St New York 36 NY
Forman-Ford & Co 111 S Second Minneapolis 1 Minn
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
General Paint Corp 2627 Army San Francisco 19 Cal
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio
Glidden Co Berea Rd at Madison Cleveland Ohio
Harrop Chemical Co 135 Hoboken Av Jersey City NJ
Haynes Prods Co 4007 Farnam Omaha 3 Neb
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill
Linde Air Prods Co 30 E 42nd New York 17 NY
Lumino Co 515 Madison Av New York 22 NY
Made-Rite Prods Co 2410 S 7th St Louis Mo
Mar-Kay Mfg Co 2715 S Second St Louis Mo
Martin-Senour Co 2520 S Quarry Chicago 8 Ill
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn
Minwax Co Inc 11 West 42nd New York NY
Mobile Paint Co Box 1686 Mobile Ala
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA
Prima Prods Inc 10 E 40th New York 16 NY
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH
Ranetite Mfg Co 1917 Broadway St Louis Mo
Rohloff & Co 918 N Western Av Los Angeles 27 Cal
Sika Chemical Corp 35 Gregory Av Passaic NJ
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
Surface Protection Co 16799 Euclid Cleveland 12 Ohio
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA
Sullivan Co 212 E Trigg Memphis 2 Tenn
Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY

Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit Mich
Tufcrete Co Inc 502 E Locust Des Moines 9 Iowa
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio
Vita-Var Corp 10 Commerce Ct Newark NJ
Waterlox Div Empire Varnish Co 2636 E 76th Cleveland Ohio
Weatherguard Service Inc 564 Jackson Av New York 55 NY
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis
Wurdack Chemical Co 4977 Fyler Av St Louis 9 Mo
X-Pando Corp 43-15 36th Long Island City 1 NY

WEATHERSTRIPPING

Accurate Metal Weatherstrip Co 218 E 26th New York 10 NY
Alden Mfg Co 201 W Walnut Painesville Ohio
ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
Aluminum Home Prods Co Carr at Southern Ry Box 10021 Knoxville Tenn
American Metal Weather Strip Co Grand Rapids Mich
BALTZ (R N) & CO 1009 HARVARD TER EVANSTON ILL
Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio
Bridgeport Fabrics Inc 195 Holland Av Bridgeport 1 Conn
Central Metal Strip Co 4343 N Western Av Chicago Ill
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Durkee-Atwood Co 215 7th NE Minneapolis 13 Minn
Dyke Bros 309 Center Little Rock Ark
E-Z Tight 611 S Broadway Albuquerque NM
Formetal Inc 109 W Water Oak Harbor Ohio
Gardner Wire Co 1325 S Cicero Chicago 50 Ill
Goshen Sash & Door Co E Purl Goshen Ind
Lock Joint Window Co 817 NW 61st Oklahoma City Okla
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See Pgs. 14-17

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SANTA FE OKLAHOMA CITY 1 OKLA
MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL
Milwaukee Strip Service Inc 4621-23 W Lisbon Av Milwaukee 8 Wis
Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo
MORTELL (J W) CO 550 N HOBBIE KANKAKEE ILL
N S W Co 12930 Auburn Detroit 23 Mich
National Guard Prods 757 Madison Memphis 7 Tenn
National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa
Nichols Metal Strip Service 2108 Gilbert Cincinnati 6 Ohio
Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill
Reese Metal Weatherstrip Co 712 Park Av Minneapolis Minn
Rhodes (James H) & Co 157 W Hubbard Chicago 10 Ill
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
R O W SALES CO 1365 ACADEMY ROYAL OAK 3 MICH
Samson Prods Co 3219 Armitage Av Chicago 47 Ill
SCHLEGEL MFG CO 227 N GOODMAN ROCHESTER NY
Security Co 1757 Puritan Av Detroit 3 Mich
Sentry Stop-A-Draft 20 N Wacker Dr Chicago 6 Ill
Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn
Spanjers (A J) Co 1915 Lilac Dr Minneapolis 12 Minn
Van Cleef Bros Inc 7800 S Woodlawn Chicago 19 Ill
Warnica Prods 6416 S Ashland Chicago 36 Ill
WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO
Window Conditioning Co 32 Brown Barberton Ohio
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md
ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL

WEATHERSTRIPPING, COMBINATION SASH BALANCE

ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL
Central Metal Strip Co 4343 N Western Av Chicago, Ill
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL
MACKLANBURG-DUNCAN CO 4041 N
SANTA FE OKLAHOMA CITY 1 OKLA
MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL
Milwaukee Strip Service Inc 4621-23 W Lisbon Av Milwaukee 8 Wis
Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn

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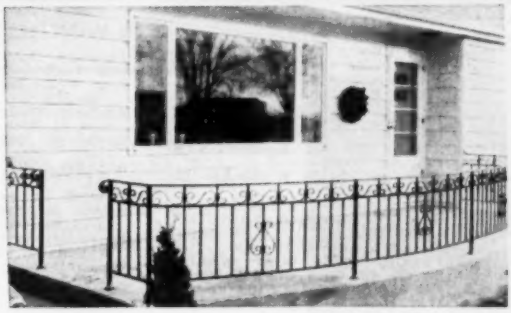

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ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL

WEATHERSTRIPPING, DOOR & DOOR BOTTOM

Accurate Metal Weatherstrip Co 218 E 26th New York 10 NY
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Ames Metal Moulding Co 225 E 144th New York 51 NY
BALTZ (R N) & CO 1009 HARVARD TER EVANSTON ILL
Brainard Industries Inc 152 S 15th Lindenhurst LI NY
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Central Metal Strip Co 4343 N Western Av Chicago 18 Ill
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Dennis (W J) & Co 4444 W Irving Park Chicago 39 Ill
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill
Gardner Wire Co 1325 S Cicero Chicago 50 Ill
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA

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MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY, OKLA.

MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL
National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY
Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn
SCHLEGEL MFG CO 227 N GOODMAN ROCHESTER NY
Sentry Stop-A-Draft Co 20 N Wacker Dr Chicago 6 Ill
Thermal Co 45 W Durham Philadelphia Pa
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA
Waterloo Sales Co Cleveland 19 Ohio
WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO
ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL

WHEELBARROWS

American Steel Scraper & Wheelbarrow Co Wilkinson Av Sidney Ohio
Buch Mfg Co 800 S Market Elizabethtown Pa
Chattanooga Wheelbarrow Co 1311 E Main Chattanooga 2 Tenn
Concord Woodworking Co Inc 10 Behariel West Concord Mass
GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON OHIO
Jackson Mfg Co Lochiel Rd Harrisburg Pa
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Kwik-Mix Co Port Washington Wis
Lansing Co 603 N Cedar Lansing 3 Mich
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ
Novo Engine Co Ballantine St Lansing 5 Mich
Prime Mover Co Sampson St Muscatine Iowa
Sterling Wheelbarrow Co 7036 W Walker Milwaukee Wis
Western Wheel Barrow Mfg Co South Fort Smith Ark
Wood Shovel & Tool Co Piqua Ohio

WHEELS, GRINDING

Abrasive Prods Inc 100 Pearl South Braintree Mass
Albertson & Co Inc Sioux City 3 Iowa
American Emery Wheel Wks 1 Richmond Sq Providence 1 RI
Bay State Abrasive Prods Co Union St Westboro Mass
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
BRADFORD MACHINE TOOL CO 656-671 EVANS CINCINNATI 4 OHIO
Bridgeport Safety Emery Wheel Co Bridgeport Conn
Carborundum Co Buffalo Av Niagara Falls NY
Chicago Wheel & Mfg Co 1101 W Monroe Chicago 7 Ill
Cortland Grinding Wheels Corp 1 Huntington Chester Mass
DREMEL MFG CO 2420 18TH RACINE WIS
General Hardware Co 3618 W Pierce Milwaukee 15 Wis
Goodrich Grinding Wheel Co 1500 W Madison Chicago Ill
Hanchett Mfg Co 906 N State Big Rapids Mich
Macklin Co 2914 Wildwood Rd Jackson Mich
Mid-West Abrasive Co 500 S Washington Owosso Mich
Norton Co 1 New Bond Worcester 6 Mass
Simonds Abrasive Co Tacony & Fraley Philadelphia 37 Pa
SKIL CORP 5033 ELSTON CHICAGO 30 ILL
Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio
Thor Power Tool Co 175 N State Aurora Ill
Vitrified Wheel Co Westfield Mass
United States Rubber Co 1230 Avenue of the Americas New York 20 NY
Wissota Mfg Co 1301 S 3rd Minneapolis Minn

WINCHES, HAND

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
C&H Electric Co 436 W Juneau Av Milwaukee 3 Wis
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn
Dobbie Foundry & Machine Co 150 Portage Rd Niagara Falls NY
Downs Crane & Hoists Co 540 W Vernon Av Los Angeles 37 Cal
Erie Hoist Co Erie Pa
Little Giant Prods Inc 1530 N Adams Peoria 3 Ill
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
Round (David) & Son Inc Box 883 Cleveland 22 Ohio
Stephens-Adamson Mfg Co 274 Ridgewny Av Aurora Ill

WINCHES, TRACTOR & TRUCK

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn
Four Wheel Drive Auto Co E 12th Clintonville Wis
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich
Hyster Co 2902 NE Clackamas Portland 8 Ore
OLIVER CORP 400 W MADISON CHICAGO ILL
Original Enderes Co Guttenburg Iowa
Robbin & Myers Inc 1345 Lagonda Av Springfield Ohio
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn
Sasgen Derrick Co 3101 W Grand Av Chicago 22 Ill
Shepard Niles Crane & Hoist Corp 410 Schuyler Av Montour Falls NY
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY
Stimmel Winch Co 37-24 33rd Long Island City 1 NY
Wood (Gar) Industries Michigan Blvd Wayne Mich

WINDOW OPERATORS

Adams Co Box 268 Dubuque Iowa
Bayley (William) Co 1200 Warder Springfield 99 Ohio
Barrows Lock Wks 24th & Commonwealth Av North Chicago Ill
Bommer Spring Hinge Co Inc 263 Classon Av Brooklyn 5 NY
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
Croft Steel Prods Inc 10 Market Jamestown NY
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
GRAND RAPIDS HDWE CO 560 ELEVENTH NW GRAND RAPIDS 2 MICH
Horton Div Aveo Mfg Corp Circleville Ohio
IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Kinnear Mfg Co Fields Av Columbus 16 Ohio
New England Mfg & Supply Corp 42 Church New Haven Conn
Norwalk Lock Co Div Segal Lock & Hardware Co 397 Broadway New York 13 NY
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
Sager-Barrow Div Yale & Towne Mfg Co Berrien Springs Mich
SARGENT & CO 45 WATER NEW HAVEN 9 CONN
Segal Lock & Hdwe Co Inc 395 Broadway New York 13 NY
Shelby Spring Hinge Co Shelby Ohio
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL
Whitney (Vincent) Co Box 335 Sausalito Cal
YALE & TOWNE MFG CO HENRY ST STAMFORD CONN

WINDOW SASH PULLEYS

Champion Hdwe Co 3300 Miller Geneva Ohio
Chantrell Hdwe & Tool Co Fitchburg Mass
Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN
GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA
GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS MICH
HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO
Industrial Iron Wks 6011 SW Macadam Box 4625 Portland 1 Ore
Penn Hardware Co Spruce St Reading Pa
Phoenix Lock Co 327 3rd Av Newark 7 NJ
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill
RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

WINDOW SCREENS, ALUMINUM FRAME

A B C Steel Equipment Co 211 E 22nd New York NY
A B C Steel Equipment Co Inc 17th & First Av Tampa 5 Fla
Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
All Weather Jalousies Inc State Hwy 46 Teterboro NJ
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA
B&W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX
Barnhart (A W) Co 140 Highland Port Chester NY
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
General Woodcraft Co Inc 34th & Paterson Plank Rd North Bergen NJ
Kane Mfg Corp Box 641 Kane Pa
Kaufmann Corp 17210 Gable Detroit 12 Mich
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
Lato Prods Co 909 New Boston Rd Texarkana Tex
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
Metalcraft Screen Co 1171 Tremont Boston 20 Mass
Orange Div Eagle Picher Co American Bldg Cincinnati Ohio
Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Rudiger-Lang Co 2701 8th Berkeley 10 Cal
Screens & Fabricated Metals Corp 3323 Paterson Plank Rd North Bergen NJ
Security Sash & Screen Co 385 Midland Detroit 3 Mich
Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
Universal Fabricators 1785-1829 Boone Av New York 60 NY
V-Seal Corp 1300 Batavia Rd Royal Oak Mich
Vulcan Metal Prods 2801 6th Av S Birmingham Ala
Wilson (L S) Mfg Co 7421 S Loomis Blvd Chicago 36 Ill

WINDOW SCREENS, ROLLING

Barnhart (A W) Co 140 Highland Port Chester NY
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Kane Mfg Corp Box 641 Kane Pa
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA

Lockhart Mfg Corp 6350 E Davison Detroit Mich
Metalcraft Screen Co 1171 Tremont Boston 20 Mass
ROLSCREEN CO PELLA IOWA
Rudiger-Lang Co 2701 8th Berkeley 10 Cal
Rylock Co Ltd San Leandro Cal
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
Universal Roller Screen Co 2055 N Racine Av Chicago Ill

WINDOW SCREENS, STEEL FRAME

A B C Steel Equipment Co 211 E 22nd New York NY
Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA
Atkinson Mfg Co 502 S James Ludington Mich
Barnhart (A W) Co 140 Highland Port Chester NY
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich
Cincinnati Fly Screen Div Russell (F C) Co Union Commerce Bldg Annex Cleveland 2 Ohio
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Continental Screen Co 1249 Washington Blvd Detroit 26 Mich
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Croft Steel Prods Inc 10 Market Jamestown NY
Dennis (W J) & Co 4444 W Irving Pk Chicago Ill
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
Kane Mfg Corp Box 641 Kane Pa
KEWANEE MFG CO 150 BURLINGTON KEWANEE ILL
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Lato Prods Co 909 New Boston Rd Texarkana Tex
Malibu Mfg Corp 8438 Melrose Av Los Angeles 48 Cal
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
METAL ARTS MFG CO INC HARWELL & OAKCLIFF RDS SW BOX 4144 ATLANTA GA
NEW MONARCH MACHINE & STAMPING CO 406 SW 9TH DES MOINES 9 IOWA
Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
Rudiger-Lang Co 2701 8th Berkeley 10 Cal
RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO
STEELCRAFT MFG CO 9050 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Stewart Screen Co 32 S Raymond Av Pasadena 1 Cal
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Universal Fabricators 1801 Boone Av Bronx 60 NY

WINDOW SCREENS, SUN-REFLECTING

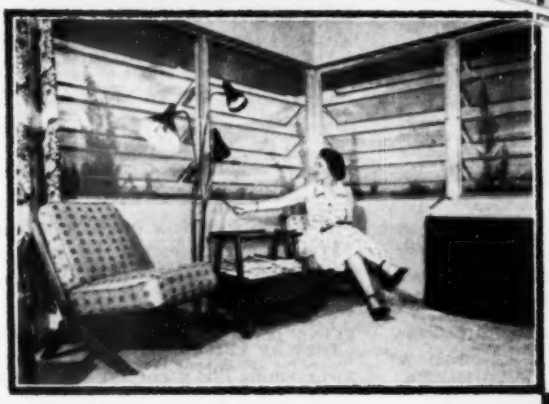
B&W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
Kaiser Aluminum & Chemical Corp 1924 Broadway Oakland 12 Cal
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

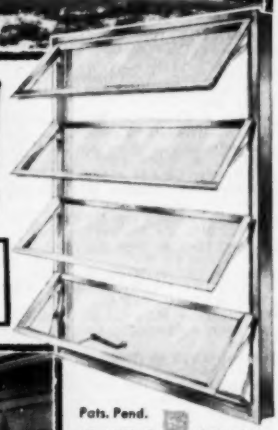
WINDOW SCREENS, WOOD FRAME

Angel Novelty Co Fitchburg Mass
Barnhart (A W) Co Port Chester NY
Burke Millwork Co Fremont Bridge Seattle 3 Wash

Sells on SITE!

AIR-VUE *aluminum* AWNING WINDOWS





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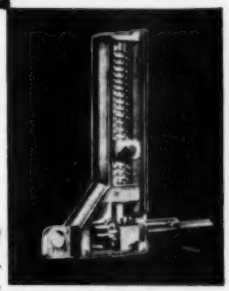
AIR-VUE's Standard Window Comes Equipped With 1 More Ventilator Than Those of Most Other Manufacturers.

The fast-selling house is the extra-value house...and AIR-VUE Aluminum Awning Windows represent added value that buyers recognize. Good looks, easy operation, low maintenance, helps you close deals.



POWER-TURN OPERATOR
Only 3 moving parts—automobile-jack principle delivers full power for opening and closing cycle.
FULLY GUARANTEED.

- **Heavy-Gauge All-Aluminum Construction**
- **Fast Installation—Easy Glazing**
- **Shipped Complete with Operator Built In**
- **Designed for Interchangeable Screen and Storm Sash**

COMPLETELY WEATHERSTRIPPED

EXCLUSIVE TERRITORIES OPEN
Write, wire Dept. AB-4, R. B. Leonard, Inc., for full details

R. B. Leonard, inc.
5775 N.W. 35th COURT • MIAMI, FLORIDA

R. B. Leonard, Inc., Dept. AB-4
5775 N.W. 35th Court, Miami, Florida
Gentlemen: Please give me full facts about the AIR-VUE Aluminum Awning Window.
Check one: Builder ☐ Dealer ☐
Name.....
Address.....
City.....Zone.....
State.....Phone.....

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
COFFMAN (R G) CO INC BOX 1113 ORLANDO FLA
Cole Mfg Co Box 2657 Memphis 2 Tenn
Continental Screen Co 1323 Book Bldg Detroit 26 Mich
CROSSETT LUMBER CO CROSSETT ARK
Crown Shade & Screen Co 44 Lochdale Rd Boston Mass
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Dennis (W J) & Co 4444 Irving Park Blvd Chicago 41 Ill
Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY
Farley & Loetscher Mfg Co Dubuque Iowa
Fordyce-Crossett Lumber Co Fordyce Ark
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo
Ideal Co 24th & Mary Waco Tex
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Kinzua Pine Mills Co Kinzua Ore
Marquart Millwork Co 50 Ceape Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
National Screen Co Inc Suffolk Va
National Screen Door Co Montgomery 3 Ala
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phenix Mfg Co Inc 4129 N Port Washington Rd Milwaukee Wis
Prentice (F W) & Co Adrian Mich
Roach & Musser Co Muscatine Iowa
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
Robinson Mfg Co Everett Wash
Rock Island Millwork Co Rock Island Ill
R. O. W. SALES CO 1365 ACADEMY FERNDALE MICH
RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO
Schumacher (F E) Co 200 Mill Hartville Ohio
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
Universal Fabricators 1801 Boone Av Bronx 60 NY
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
Weather Proof Co 1409 E 40th Cleveland 3 Ohio
Wheeler Osgood Co Box 1629 Tacoma 1 Wash
White Pine Sash Co Spokane 7 Wash

WINDOW SILLS & STOOLS, METAL

Accurate Metal Weather Strip Co 216 E 26th New York 10 NY
AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
Knapp Bros Mfg Co 16 E 72nd Cincinnati 16 Ohio
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO

WINDOW STOOLS, LAMINATE COVERING

Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash

WINDOW SURROUNDS, STEEL

Bayley (William) Co 1200 Warder Springfield 99 Ohio
BUILDERS MFG CO 1514 BROWN-MARX BLVD DETROIT 11 MICH
DETROIT STEEL PRODS 2250 E GRAND BLVD DETROIT 11 MIC H
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO

WINDOWS, ALUMINUM, GLASS LOUVRES

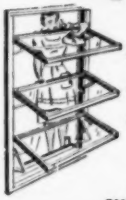
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Clearview Louver Window Corp 2625 Elm Dallas 1 Tex
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
Marmet Corp Box 208 Wausau Wis
Universal Corp 6710 Denton Dr Dallas Tex

WINDOWS, AWNING, METAL

ADAMS ENGINEERING CO BOX 936 LITTLE RIVER BRANCH MIAMI 38 FLA
Air Control Prods Inc Glade at Larch Coopersville Mich
All-Lite Metal Window Co Box 11 Bristol Pa
Altex Mfg Co Summerville SC
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
Brown & Grist 112 Todds Lane Warwick Va
Clearview Louver Window Co 2625 Elm Dallas 1 Tex
Croft Steel Prods Inc 10 Market Jamestown NY
Decatur Iron & Steel Co 2nd St W Decatur Ala
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods Co 2250 E Grand Blvd Detroit 11 Mich
Fentron Steel Wks Inc 2801 Market Seattle Wash
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Harris Inc 200 E Long Columbus 15 Ohio
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
LEONARD (R B) INC 5775 NW 35TH CT MIAMI FLA
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
Metal Trims Inc Box 1072 Youngstown 1 Ohio
MIAMI WINDOW CORP 5200 NW 37TH AV MIAMI FLA
Ron-del Inc 1026 Reserve Loan Life Bldg Dallas Tex
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio
Superior Window Co 5300 NW 37th Av Miami Fla
Super-Vent Co 905 W North Av Chicago Ill
Tru-Seal Window Div Industrial Machine Tool Co Inc 301 S Oak Fenton Mich
Trim-Set Corp 2801 Market Seattle 7 Wash
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Union Aluminum Co Sheffield Ala
Universal Window Co 950 Parker Berkeley 10 Cal
Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

WINDOWS, AWNING, WOOD

Air-Vue Prods Corp 3649 NW 50th Miami Fla
ANDERSEN CORP BAYPORT MINN
Builders Prods Inc 7555 Bessemer Cleveland Ohio
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo
GATE CITY SASH & DOOR CO 15 SW THIRD AV FORT LAUDERDALE FLA
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ
Hurd Millwork Corp Medford Wis
Ideal Co 24th & Mary Waco Tex
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
R O W SALES CO 1365 ACADEMY FERNDALE 20 MICH
ROLSCREEN CO PELLA IOWA
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
SUPER-VENT CO 905 W NORTH AV CHICAGO ILL

CUSTOM-SIZED, PRE-ASSEMBLED
Super-Vent
WOOD AWNING WINDOWS

• No external hardware—locks automatically.
• Inside screens—100% draft-free ventilation.
• Shipped open or glazed. Completely assembled at factory.
24 standard sizes plus picture window combinations.
SUPER-VENT CO.
905 W. North Ave., Chicago, Ill.
Write for brochure and specifications

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa
Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

WINDOWS, BARN, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

WINDOWS, BARN, STEEL

Adams Co Box 268 Dubuque Iowa
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Croft Steel Prods Inc 10 Market Jamestown NY
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fenestra Building Prods Co 2250 E Grand Blvd Detroit 11 Mich
Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
James Mfg Co Fort Atkinson Wis
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Klauer Mfg Co 9th & Washington Dubuque Iowa
Louden Machinery Co 261 S Court Fairfield Iowa
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
Ney Mfg Co 948 High Av SW Canton 4 Ohio
Olson Mfg Co 620-24 S Broadway Albert Lea Minn
Starline Inc Harvard Ill
STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE OHIO
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Union Aluminum Co Sheffield Ala
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY

WINDOWS, BARN, WOOD

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
ANDERSEN CORP BAYPORT MINN
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2652 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO

Marquart Millwork Co Oshkosh Wis
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
National Screen Door Co Box 1887 Montgomery 3 Ala
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Roach & Musser Co Muscatine Iowa
Roberson (A) & Son Inc Box 111 Binghamton NY
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
White Pine Sash Co E 4005 Broadway Spokane Wash

WINDOWS, BASEMENT, ALUMINUM

Adams Co Box 268 Dubuque Iowa
Alcasco Prods Inc 1780 Creston Muskegon Heights Mich
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich
Croft Steel Prods Inc 10 Market Jamestown NY
Goshen Sash & Door Co E Purl Goshen Ind
Kaufmann Corp 17210 Gable Detroit 7 Mich
MAJESTIC CO INC HUNTINGTON IND
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
PER-FIT PRODS CORP 1200 E 52ND INDIANAPOLIS 5 IND
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
Union Aluminum Co Sheffield Ala
Valley Metal Prods Co Bridge St Plainwell Mich
Windalume Corp Route 46 Kenvil NJ

WINDOWS, BASEMENT, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

WINDOWS, BASEMENT, STEEL

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bogert & Carlough Co Washington Av Paterson NJ
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
Decatur Iron & Steel Co 2nd Street W Decatur Ala
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Fries & Son Steel Construction & Engineering Co Covington Ky
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
International Steel Co 1321 Edgar Evansville 7 Ind
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
MAJESTIC CO INC HUNTINGTON IND
NEW MONARCH MACHINE & STAMPING CO 406 SW NINTH DES MOINES 9 IOWA
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
VENTO STEEL PRODS INC 250 COLORADO AV BUFFALO 15 NY

WINDOWS, BASEMENT, WOOD

ANDERSEN CORP BAYPORT MINN
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
Angel Novelty Co 340 Broad Fitchburg Mass
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2652 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Etling Window 24 Huston Barberton Ohio
Farley & Loetscher Mfg Co Dubuque Iowa
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Long Lake Lumber Co Spokane Wash
Marquart Millwork Co 50 Cenpe Oshkosh Wis
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Morgan Co 520 Oregon Oshkosh Wis
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co 2525 Fourth Av Rock Island Ill
ROLSCREEN CO PELLA IOWA
Segelke & Kohlhaus Co 600 S 2nd St LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN
White Pine Sash Co E 4005 Broadway Spokane Wash

WINDOWS, BASEMENT & UTILITY, STEEL

Adams Co Box 268 Dubuque Iowa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bayley (William) Co 1200 Warder Springfield 99 Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Clay Equipment Corp 1148 Blake Cedar Falls Iowa
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Croft Steel Prods Inc 10 Market Jamestown NY
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich
Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio
HOPE'S WINDOWS INC 84 HOPKINS AV Jamestown NY
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
MAJESTIC CO HALL ST HUNTINGTON IND
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
Modern Stainless Specialties Co Div Modern Electric Laboratory 306-8 W 69th Chicago 21 Ill
NEW MONARCH MACHINE & STAMPING CO 406 SW NINTH DES MOINES 9 IOWA
Soule Steel Co 1750 Army San Francisco 24 Cal
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
VENTO STEEL PRODS CO INC 245 COLORADO BUFFALO 15 NY

WINDOWS, CASEMENT, ALUMINUM

ABC Steel Equipment Co 211 E 22nd New York NY
ABC Steel Equipment Co Inc 17th & First Av Tampa 5 Fla
Adams & Westlake Co Safford St Elkhart Ind
Alcasco Prods Inc 1780 Creston Muskegon Heights Mich
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
All-Lite Metal Window Co Bristol Pa
Aluminum Home Prods Co Carr & Southern Ry Knoxville Tenn
Aluminum Prods Co 1901 Franklin Av Houston Tex
Bayley (William) Co 1200 Warder Springfield 99 Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Croft Steel Prods Inc 10 Market Jamestown NY
Fentron Industries Inc 2801 Market Seattle 7 Wash
Flour City Ornamental Iron Co 2635 27th Av S Minneapolis Minn
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Folmar (R H) Co 205 E Riverside Dr Austin Tex
GENERAL BRONZE CORP STEWART AV GARDEN CITY NY
Harris Inc 200 E Long Columbus Ohio
HIGGINS INC BOX 8001 NEW ORLEANS LA
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
Huttig Sash & Door Co 1206 S Vanderventer Av St Louis 10 Mo
International Safety Window Corp 121-127 30th Brooklyn 32 NY
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Maco Corp 1345 Henry Huntington Ind
Marmet Corp Box 208 Wausau Wis
METAL ARTS MFG CO INC HARWELL & OAKCLIFF RDS SW BOX 4144 ATLANTA 2 GA
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
Peterson Window Corp 1341 E Eight-Mile Rd Ferndale 20 Mich
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY
Soule Steel Co 1750 Army San Francisco 24 Cal
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
Sterling Windows Inc 369 Lexington Av New York 17 NY
Storms (Albert) & Co 101 Park Av New York 17 NY
Superior Window Co 5300 NW 37th Av Miami Fla
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 22 PA
Timm Industries Inc 5245 San Fernando Rd Los Angeles 39 Cal
Trim-Set Corp Sub Fentron Steel Wks Inc 2801 Market Seattle 7 Wash
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
Union Aluminum Co Inc Sheffield Ala
Universal Corp 6710 Denton Dr Dallas Tex
Universal Window Co 950 Parker Berkeley 10 Cal
Valley Metal Prods Co Bridge St Plainwell Mich
V-Seal Corp 1300 Batavia Rd Royal Oak Mich
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis
WARE LABORATORIES INC 1827 DELAWARE PKWY MIAMI FLA
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
Williams Bros Corp Chamblee Ga

WINDOWS, CASEMENT, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

WINDOWS, CASEMENT, STEEL

ABC Steel Equipment Co 211 E 22nd New York NY
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Bayley (William) Co 1200 Warder Springfield Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHALLENGER PRODS INC 2601 PENN AV PITTSBURGH 22 PA
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Croft Steel Prods Inc 10 Market Jamestown NY
Decatur Iron & Steel Co 2nd St W Decatur Ala
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
International Safety Window Corp 121-127 30th Brooklyn 32 NY
International Steel Co 1321 Edgar Evansville 7 Ind
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
MESKER (GEO L) STEEL CORP 400 NW FIRST EVANSVILLE IND
MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
Republic Steel Co 1750 Army San Francisco Cal
RUSSELL (F C) CO 1100 CHESTER CLEVELAND 1 OHIO
Soule Steel Co 1750 Army San Francisco 24 Cal

STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY
Vimcar Sales Co Box 2187 S Annex Sta Van Nuys Cal
Williams & Williams Prods Corp 326-28 E 44th New York 17 NY

WINDOWS, CASEMENT, WOOD

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
ANDERSEN CORP BAYPORT MINN
Biles-Coleman Lumber Co Inc Omak Wash
BROWN-GRAVES CO 191 E MILLER AV AKRON 1 OHIO
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2652 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Keystone Frame & Mfg Co Box 873 Spokane 3 Wash
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
Marquart Millwork Co Oshkosh Wis
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Panel Windows Inc 207 Winchester Av Martinsburg W Va
Pullum Window Corp 12050 Lyndon Av Detroit 27 Mich
Quigley (J R) Co Gloucester City NJ
Roach & Musser Co Muscatine Iowa
Rock Island Millwork Co Rock Island Ill
ROLSCREEN CO PELLA IOWA
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa
Spokane Sash & Door Co Spokane Wash
Wadsworth Inc 2949 Chrysler Rd Kansas City Kans
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
White Pine Sash Co E 4005 Broadway Spokane Wash

WINDOWS, COMBINATION SCREEN & STORM SASH, ALUMINUM

Adams Co Box 268 Dubuque Iowa
Allied Metal Inc 14 Hamilton New London Conn
Alsco Inc 260 S Forge Akron Ohio
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
B & W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX
Barnhart (A W) Co 141 Highland Port Chester NY
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus Ohio
Burrowes Corp 70 Free Portland Me
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHALLENGER PRODS INC 2601 PENN AV PITTSBURGH 22 PA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Clark-Babbitt Industries Inc 75 Federal Boston 10 Mass
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich
GENERAL BRONZE CORP STEWART AV GARDEN CITY NY
Hess Mfg Co Quincy Pa
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
KOTA PRODS INC NORTH COUNTY RD ROCKY POINT LI NY
McKinley (Orman O) Co 4530 N Keystone Indianapolis Ind
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
NATIONAL ALUMINUM CORP 1135 ALUM CREEK DR COLUMBUS 9 OHIO
Orange Div Eagle Picher Co American Bldg Cincinnati Ohio
Rex Windows Inc 487 Bonham Av Columbus 3 Ohio
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND 2 OHIO
Samson Prods Co 3219 Armitage Av Chicago 47 Ill
Screens & Fabricated Metals Corp 3323 Paterson Plank Rd North Bergen NJ
Security Sash & Screen Co 385 Midland Detroit 3 Mich
Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn
Spanjers (A J) Co 1915 Lilac Dr Minneapolis 12 Minn
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
Sterling Windows Inc 369 Lexington Av New York NY
THORN (J S) CO ALLEGHENY AV & 26TH PHILADELPHIA 32 PA
V-Seal Corp 1300 Batavia Rd Royal Oak Mich
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 Ill
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
Winstrom Mfg Corp 15-32 127th College Point NY
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md
Winter Seal Corp 14575 Meyers Rd Detroit 27 Mich

WINDOWS, COMBINATION SCREEN & STORM SASH, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

WINDOWS, COMBINATION SCREEN & STORM SASH, STEEL

Adams Co Box 268 Dubuque Iowa
Allied Metal Fabricators Inc 77 Hamilton New London Conn
Barnhart (A W) Co 140 Highland Port Chester NY
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Corry-Jamestown Mfg Corp Corry Pa
Diamond Building Prods Corp 3650 E 93rd Cleveland Ohio
GENERAL BRONZE CORP ALWINTITE DIV 801 STEWART AV GARDEN CITY NY
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 6 ILL
Kane Mfg Corp Box 641 Kane Pa
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Kaufmann Corp 17210 Gable Detroit 12 Mich
MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO
State Storm Windows Co Inc 131 Shommard Syracuse NY
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGTOWN 1 OHIO

WINDOWS, COMBINATION SCREEN & STORM SASH, WOOD

ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS
ANDERSEN CORP BAYPORT MINN
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
Angel Novelty Co 340 Broad Fitchburg Mass
Anson & Gilkey Co Logan Av & Sales Merrill Wis
BROWN GRAVES CO 191 E MILLER AV AKRON 1 OHIO
Buckeye Screen & Weatherstrip Co 1371 S 22nd Columbus Ohio
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY
Marquart Millwork Co 50 Ceape Oshkosh Wis
Northern Sash & Door Co Hawkins Wis
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Prentice (F W) & Co 430 N Dean Adrian Mich
Roberson (A) & Son Inc Box 111 Binghamton NY
Rock Island Millwork Co 2525 4th Av Rock Island Ill
Schumacher (F E) Co 200 Mill Hartville Ohio
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Self Storing Window Co 2613 Stephens Av S Minneapolis Minn
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
WESTERN LOCK MFG CO 211 N MADISON AV LOS ANGELES 4 CAL
Window Conditioning Co 32 Brown Barberton Ohio

WINDOWS, DOUBLE-GLAZED, HERMETICALLY SEALED

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Kesko Prods Inc Box 98 Bristol Ind
LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG 12TH FL TOLEDO 3 OHIO
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis

WINDOWS, DOUBLE-HUNG, ALUMINUM

Adams & Westlake Co Safford St Elkhart Ind
Alsco Inc Box 270 Akron 8 Ohio
Altex Mfg Co Inc Summerville SC
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Clark-Babbitt Industries Inc 75 Federal Boston 10 Mass
Compo-Miracle Prods Co Berkley Mich
Croft Steel Prods Inc 10 Market Jamestown NY
Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
FLEET OF AMERICA INC 507 DUNN BLDG BUFFALO 2 NY
Flour City Ornamental Iron Co 2635 27th Av S Minneapolis Minn
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Gall Reversible Window Co Aurora & Cannon Rd Bedford Ohio
GENERAL BRONZE CORP STEWART AV GARDEN CITY NY

for DEPENDABLE QUALITY in
ALUMINUM WINDOWS
DOUBLE-HUNG • SLIDING • AWNING
PANORAMA • PICTURE-SLIDING • VIEWall
GENERAL BRONZE CORPORATION GB
ALWINTITE ®
by GENERAL BRONZE CORPORATION
GARDEN CITY, N. Y.

Harris Inc 200 E Long Columbus Ohio
HIGGINS INC BOX 8001 NEW ORLEANS LA
Holister Coil Spring Mfg Co 955 Slauson Av Los Angeles Cal
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
International Safety Window Corp 121-127 30th Brooklyn 32 NY
Kaufmann Corp 17210 Gable Detroit 7 Mich
Kewanee Mfg Co Kewanee Ill
KOTA PRODS INC NORTH COUNTY RD ROCKY POINT LI NY
Marmet Corp Box 298 Wausau Wis
METAL ARTS MFG CO HARWELL & OAK CLIFF RDS SW BOX 4144 ATLANTA GA
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
Paramount Casement Window Corp 180-11 Jamaica Jamaica 3 NY
Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
PER-FIT PRODS CORP 1200 E 52ND INDIANAPOLIS 20 IND
Peterson Window Corp 1377 East Eight-Mile Rd Ferndale 20 Detroit Mich
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO
Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO
Sterling Windows Inc 369 Lexington Av New York 17 NY
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA PA
Timm Industries 5245 W San Fernando Los Angeles 39 Cal
Union Aluminum Co Inc Sheffield Ala
WARE LABORATORIES INC 1827 DELAWARE PKWY MIAMI FLA
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio
Window Corp of America 3835 9th New York 34 NY
Windalume Corp Route 46 Kenvil NJ
Wisco Aluminum Corp 3945 A St Detroit Mich

▶ WINDOWS, DOUBLE-HUNG, SAFETY

International Safety Window Corp 121-127 30th Brooklyn 32 NY

▶ WINDOWS, DOUBLE-HUNG, STEEL

Adams & Westlake Co Safford St Elkhart Ind
American Sheet Metal Wks 325 N Alexander New Orleans La
BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX
Pomeroy (S H) Co Inc 25 Bruckner Blvd New York NY
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND 2 OHIO
Southern Wire & Steel Prods Co 528 N 37th Birmingham Ala
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
Sterling Windows Inc 369 Lexington Av New York 17 NY
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO

▶ WINDOWS, DOUBLE-HUNG, WOOD

ARB WINDOW SALES CO 306 E STATE FAIR AV DETROIT 3 MICH
Ace Seal-Rite Mfg Co 26015 W Warren Rd Garden City Mich
Acme Tile & Flooring Co 159 Water New Haven Conn
American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo
ANDERSEN CORP BAYPORT MINN
Anson & Gilkey Co Logan Av & Sales Merrill Wis
Bache (Semon) & Co 636 Greenwich New York 14 NY
Biles-Coleman Lumber Co Inc Omak Wash
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash
Burke Millwork Co Fremont Bridge Seattle 3 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Cole Mfg Co Box 2651 Memphis 2 Tenn
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Deer Park Pine Industry Inc Deer Park Wash
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City 6 Mo
Dixon Industries 315 E Jackson Spokane Wash
Etling Window Barberton Ohio
Fabrow Mfg Inc 7208 Douglas Rd Toledo Ohio
Farley & Loetscher Mfg Co Dubuque Iowa
General Woodcraft Co 3323 Paterson Plank Rd North Bergen NJ
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 2131 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hotchkiss Bros Co Torrington Conn
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Hyde-Murphy Co Murphy Bldg Ridgway Pa
Ideal Co 24th & Mary Waco Tex
International Safety Window Corp 121-127 30th Brooklyn 32 NY
Keystone Frame & Mfg Co 3629 E Riverside Spokane 3 Wash
Kinzua Pine Mills Co Kinzua Ore
Letzacon Building Prods 8 Broadway New York 4 NY
Lockwood Wood Prods Box 338 Beaverton Ore
LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO
MALTA MFG CO 35 ELLIOTT MALTA OHIO
Marquart Millwork Co 50 Ceape Oshkosh Wis
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill
Missoula White Pine Sash Co Scott & Stoddard Missoula Mont
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mfg Co 2610 The Alameda Santa Clara Cal
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Pullum Window Corp 12950 Lyndon Av Detroit 27 Mich
Quigley (J R) Co Gloucester City NJ
R O W SALES CO 1365 ACADEMY FERNDALE MICH
Roach & Musser Co Muscatine Iowa
Roberson (A) & Son Inc Box 111 Binghamton NY
Rock Island Millwork Co Rock Island Ill
Rockwell Sales Corp 20 N Wacker Dr Chicago Il
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Semling-Menke Co S Nast St Merrill Wis
Silcrest Co 100 Thomas Wausau Wis
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa
WABASH SCREEN DOOR CO 310 S WABASH CHICAGO ILL
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
Western Pine Mfg Co Ltd 315 E Jackson Spokane Wash
WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN
White Pine Sash Co E 4005 Broadway Spokane Wash
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

▶ WINDOWS, GLASS BLOCK & SLIDING SASH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill
Genseo Tools 1830 N Kostner Av Chicago 39 Ill
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
Marmet Corp Box 208 Wausau Wis
Valley Metal Prods Co Bridge St Plainwell Mich

▶ WINDOWS, HORIZONTAL GLIDING, METAL

Glide Windows Inc 7463 Varna Av North Hollywood Cal
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
PANAVIEW 13454 RAYMER NORTH HOLLYWOOD CAL
PER-FIT PRODS CORP 1200 E 52ND INDIANAPOLIS 5 IND
Peterson Window Corp 1377 E 8-Mile Rd Ferndale 20 Mich
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO
SLIDE-VIEW DOOR & WINDOW CO 521 N LACIENEGA BLVD LOS ANGELES CAL
Steelbilt Inc 18001 S Figueroa Gardena Cal

Nixalite
TRADE MARK REG
BIRD REPELLENT AND CONTROL

RIDS BUILDINGS OF BIRDS

NIXALITE properly installed on stores; office, apartment and public buildings; homes; churches; signs and similar places pigeons, starlings and other obnoxious birds land or roost compels them to fly and stay away.

Inconspicuous * Spring Tempered * Nickel Bearing Stainless Steel * Porcupine like device * Projecting needle sharp points in the form of a semi-circle * 120 in every foot * Myriads of firm resilient prongs welded and embedded in a flexible rust proof base bar.

Can be installed on any type surface and every kind of material to keep your building clean.

RESEARCH APPROVED

Precision engineered • 3-¾" high • 4-¼" wide • fabricated in four foot lengths • furnished complete with special clips and fasteners for any type construction

When NIXALITE is installed there is no further expense. No electricity. No repairing. No replacement. No labor. No maintenance.

LASTS INDEFINITELY.

Also see Sweets Catalog "Metals 5h-Ni".

Write for "Illustrated Installations" giving name of your distributor.

NIXALITE COMPANY OF AMERICA
115-119 W. Third St.,
Davenport, Iowa, U. S. A.

VISTA SLIDING DOORS 7052 LAUREL CANYON BLVD NORTH HOLLYWOOD CAL
Vita Automatic Windows Inc 6530 Queens Blvd Woodside LI NY
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

WINDOWS, HORIZONTAL GLIDING, WOOD

ARB WINDOW SALES CO 306 E STATE FAIR AV DETROIT 3 MICH
ANDERSEN CORP BAYPORT MINN
Anson & Gilkey Co Merrill Wis
Burke Millwork Co Fremont Bridge Seattle 11 Wash
Goshen Sash & Door Co E Purl Goshen Ind
Kinzua Pine Mills Co Kinzua Ore
Morgan Co 520 Oregon Oshkosh Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pierson (Ernest) Co 4100 Broadway Eureka Cal
R O W SALES CO 1365 ACADEMY FERNDALE 20 MICH
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
Western Pine Mfg Co 315 E Jackson Spokane 7 Wash
White Pine Sash Co E 4005 Broadway Spokane Wash

WINDOWS, IRON WROUGHT

Mesker Bros 6th Poplar & 7th St Louis 15 Mo

WINDOWS, LOUVRE, ALUMINUM

Air Control Prods 3601 NW 54th Miami Fla
Fentron Industries Inc 2801 Market Seattle 7 Wash
Hollywood Louvre Window Co 3055 N California Burbank Cal
Kaufmann Corp 17210 Gable Detroit 12 Mich
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA
Midwest Louvrelite Co 2040 W Washington Blvd Chicago 12 Ill
Mueller Brass Co 1925 Lapeer Av Port Huron Mich
Pro-Tect-U Jalousie Corp 4525 Ponce De Leon Blvd Coral Gables Fla
Trim-Set Corp Sub Fentron Steel Wks Inc 2801 Market Seattle 7 Wash
Union Aluminum Co Sheffield Ala
Van Ness Louvre Co 8354 San Fernando Rd Sun Valley Cal
Ventilite Corp 5556 Biscayne Blvd Miami 37 Fla
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

WINDOWS, LOUVRE, STEEL

Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati Ohio
SUN SASH CO 38 PARK ROW NEW YORK NY

WINDOWS, PIVOTED & PROJECTED, ALUMINUM

ABC Steel Equipment Co 211 E 22nd New York NY
ABC Steel Equipment Co 17th & First Av Tampa 5 Fla
Adams Co Box 268 Dubuque Iowa
Alcasco Prods Inc 1780 Creston Muskegon Mich
Altex Mfg Co Inc Summerville SC
Aluminum Home Prods Co Carr at Southern Ry Box 10021 Knoxville Tenn
Bayley (William) Co 1200 Warder Springfield 99 Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo
Flour City Ornamental Iron Co 2635 27th Av S Minneapolis 6 Minn
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
R H Folmar Co 205 E Riverside Dr Austin Tex
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
Gall Reversible Window Co Aurora & Cannon Rd Bedford Ohio
GENERAL BRONZE CORP STEWART AV GARDEN CITY NY
Marmet Corp Box 208 Wausau Wis
Storms (Albert) & Co 101 Park Av New York 17 NY
Superior Window Co 5300 NW 37th Av Miami Fla
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
Timm Industries Inc 5245 W San Fernando Rd Los Angeles 26 Cal
Union Aluminum Co Sheffield Ala
Valley Metal Prods Co Bridge St Plainwell Mich
WARE LABORATORIES INC 3700 NW 25TH MIAMI FLA
Williams Bros Corp Chamblee Ga
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

WINDOWS, PIVOTED & PROJECTED, STEEL

Adams Co Box 268 Dubuque Iowa
Bayley (William) Co 1200 Warder Springfield Ohio
Bogert & Carlough Co Washington Av Paterson NJ
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Decatur Iron & Steel Co 2nd St W Decatur Ala
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
International Steel Co 1321 Edgar Evansville 7 Ind
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Marquart Millwork Co 50 Ceape Oshkosh Wis
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
MESKER (GEO L) STEEL CORP 400 NW FIRST EVANSVILLE IND
MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Soule Steel Co 1750 Army San Francisco 24 Cal
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
Stewart Iron Wks Co 1645 Stewart Block Cincinnati 3 Ohio
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

WINDOWS, PIVOTED & PROJECTED, WOOD

Farley & Loetscher Mfg Co Dubuque Iowa
Goodcraft Metal Prods 2526 Fifth Av Detroit 1 Mich
Hayman Window Co 4401 Race Denver 16 Colo
Hurd Millwork Corp Medford Wis
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Rock Island Millwork Co Rock Island Ill
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Silcrest Co 100 Thomas Wausau Wis

WINDOWS, ROUND, WOOD

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl Goshen Ind
Webb Mfg Co Conneaut Ohio

WINDOWS, SECURITY, STEEL

Adams Co Box 268 Dubuque Iowa
Bayley (William) Co 1200 Warder Springfield Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich
Crittall Inc 1319 Lincoln Waukesha Wis
Croft Steel Prods Inc 10 Market Jamestown NY
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
International Steel Co 1321 Edgar Evansville 7 Ind
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY

WINDOWS, STORM, ALUMINUM

Adams Co Box 268 Dubuque Iowa
All Weather Jalousies Inc State Hwy 46 Teterboro NJ
Alsco Inc 260 S Forge Akron Ohio
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill
Alwintite Div General Bronze Corp 50 Stewart Garden City NY
B & W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX
Barnhart (A W) Co 140 Highland Port Chester NY
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus 6 Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Eagle-Picher Co American Bldg Cincinnati 1 Ohio
Hettrick (W E) & Son Co Toledo 1 Ohio
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL
Kane Mfg Corp Box 641 Kane Pa
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY
Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind
Rex Windows Inc 487 Bonham Av Columbus 3 Ohio
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Steel Window Prods Co 175-34 Hillside Av Jamaica 3 NY
Sterling Windows Inc 369 Lexington Av New York 17 NY
Universal Fabricators 1785-1829 Boone Av New York 60 NY
Vulcan Metal Prods 2801 6th Av S Birmingham Ala
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
Wilson (L S) Mfg Co 7421 S Loomis Blvd Chicago 38 Ill
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md
Wisco Aluminum Corp 3945 "A" St Detroit Mich

WINDOWS, STORM, STEEL

Adams Co Box 268 Dubuque Iowa
Barnhart (A W) & Co 140 Highland Port Chester NY
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
Croft Steel Prods Inc 10 Market Jamestown NY
Decatur Iron & Steel Co 2nd St W Decatur Ala
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY
Kane Mfg Corp Box 641 Kane Pa
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL
Lockhart Mfg Corp 6350 E Davidson Av Detroit 12 Mich
Mesker Bros 6th Poplar & 7th St Louis 15 Mo
NEW MONARCH MACHINE & STAMPING CO 406 SW NINTH DES MOINES IOWA
Paramount Casement Window Corp 180-11 Jamaica Jamaica 3 NY
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND 2 OHIO
Security Sash & Screen Co 385 Midland Detroit 3 Mich
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY

WARE LABORATORIES INC 1827 DELAWARE PWY MIAMI FLA
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio

WINDOWS, STORM, WOOD

ANDERSEN CORP BAYPORT MINN
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
Anson & Gelkey Co Logan Av & Sales Merrill Wis
BROWN-GRAVES CO 191 E MILLER AV AKRON 1 OHIO
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus Ohio
Burke Millwork Co Fremont Bridge Seattle 11 Wash
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich
Cole Mfg Co Box 2657 Memphis 2 Tenn
Continental Screen Co 1323 Book Bldg Detroit 26 Mich
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA
Farley & Loetscher Mfg Co Dubuque Iowa
Goshen Sash & Door Co E Purl Goshen Ind
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill
Hoosier Sash & Door Co Anderson Ind
Hurd Millwork Corp Medford Wis
Huttig Mfg Co Muscatine Iowa
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
Kinzua Pine Mills Co Kinzua Ore
LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO
Marquart Millwork Co 50 Cenpe Oshkosh Wis
Missoula White Pine Sash Co Scott & Stoddard Missoula Mont
Morgan Co 520 Oregon Oshkosh Wis
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill
National Screen Co Inc Madison Av Extended Suffolk Va
National Screen Door Co Box 1887 Montgomery 3 Ala
Northern Sash & Door Co Hawkins Wis
Northwest Door Co Box 1477 Tacoma 1 Wash
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis
Prentice (F W) & Co 430 N Dean Adrian Mich
Roach & Musser Co Muscatine Iowa
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill
Rock Island Millwork Co Rock Island Ill
Schumacher (F E) Co 200 Mill Hartville Ohio
Segelke & Kohlhaus & Co 600 S 2nd LaCrosse Wis
Semling-Menke Co S Nast St Merrill Wis
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio
Silcrest Co 100 Thomas Wausau Wis
Spokane Sash & Door Co Spokane Wash
Vimcar Sales Co Box 2187 S Annex Sta Van Nuys Cal
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL
WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO
White Pine Sash Co E 4005 Broadway Spokane Wash
Window Conditioning Co 32 Brown Barberton Ohio

WINDOWS, VERTICAL GLIDING, ELECTRICALLY OPERATED

RUSSELL (F C) CO 1100 CHESTER CLEVELAND 1 OHIO
Vita Automatic Windows Inc 6530 Queens Blvd Woodside LI NY

WINDOWS, WOOD WITH LOUVRES BELOW

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA
Hurd Millwork Corp Medford Wis
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis
Solar Air-Flor Co 600 E Purl Goshen Ind

WIRE

Allegheny Ludlum Steel Co Oliver Bldg Pittsburgh 22 Pa
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
Badger Corrugating Co 1801 West Av S LaCrosse Wis
BERGER MFG CO DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA
Mid States Steel & Wire Co Crawfordsville Ind
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill

WIRE, BARBED

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Chain Link Fence Co 24 Ship Av Medford Mass
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bambrick (Richard J) 125 Broad New York 4 NY
Bethlehem Steel Co 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Columbia Steel Co Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburg 19 Pa
Dare Prods Inc Box 157 Battle Creek Mich
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Jones & Laughlin Corp 3 Gateway Center Pittsburgh Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa

COOKING VENTILATION BUYERS!

There's MORE to COOKING VENTILATION Than Just Moving Air!

CONTROL IT!

STOP Destructive Cooking GREASE, HEAT and STEAM at the STOVE!

Vent-A-Hood KEEPS THEM FROM SPREADING!

Make a simple bacon frying test on your stove. With no hood, wall or ceiling fan, your walls and ceiling will have to be your hood . . . your doors and windows your vents. In seconds your kitchen is hotter and visible grease vapors cloud the room. Bacon is detected in every room and this vapor-odor becomes a rancid film on woodwork, walls and furnishings.

Now imagine a half hood (not covering the skillet) with this hot, buoyant grease racing past it. Imagine a wall fan attempting to deflect this rapidly rising hot vapor! A ceiling fan gets the real challenge because when greasy cooking vapor has risen that high it has saturated the room air . . . filling the entire room.

How clearly is seen the need for a *full covering* Vent-A-Hood to TRAP and CONSUME cooking heat, grease and steam before they spread. Vent-A-Hood removes 300 cu. ft. of *hood-trapped* hot, greasy vapors every cooking minute. It is providing positive, CONTROLLED ventilation in over 325,000 homes. Vent-A-Hood will *thoroughly* protect your home from cooking grease . . . its worst enemy.

WRITE FOR COMPLETE DETAILS TODAY

Tell me more about this thoroughly engineered domestic cooking heat, grease and steam confinement and removal.

Name_____
Address_____
City_____ State_____

Vent-A-Hood
1903 PLANTATION ROAD DALLAS, TEXAS

HOME COOKING VENTILATION SPECIALISTS

Do more work, make more money with CMC Hoe Type Mixers

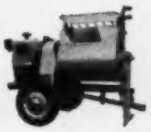
Above, NO. 6 WONDER

No other mixers can compare in performance, dependability

CMC Hoe-Type Mixers are real producers. They speed up work, save many man hours on every job and are known everywhere for their quality and rugged construction.

CMC Hoe-Type Mixers are the result of over 40 years of mixer manufacturing experience. There's a complete range from the 3½-4½ foot Hoe Boy through two 6-foot models, an 8 and 12-foot Mechanical Hoeman.

HOE BOY



MECHANICAL HOEMAN

CONSTRUCTION MACHINERY COMPANY • Waterloo, Iowa

Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

WIRE, ELECTRICAL

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Anaconda Wire & Cable Co 25 Broadway New York NY
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
General Cable Corp 420 Lexington Av New York 17 NY
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
Hazrd Insulated Wire Wks Div Okonite Co Wilkes-Barre Pa
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
NATIONAL ELECTRIC PRODS CORP 2 GATEWAY CENTER PITTSBURGH 22 PA
Okonite Co Passaic NJ
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind
Roebling's (John A) Sons Corp Trenton 2 NJ
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Spargo Wire Co 560 E Railroad Rome NY
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

WIRE, GALVANIZED STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
American Chain Link Fence Co 24 Ship Av Medford Mass
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Armco Steel Corp 703 Curtis Middletown Ohio
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Corp 701 E Third Bethlehem Pa
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Columbia Steel Co Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Dare Prods Inc Box 157 Battle Creek Mich
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA
Johnson Steel & Wire Co Worcester Mass
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh Pa
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA ILL
Laclede Steel Co Arcade Bldg St Louis Mo
Mid States Steel & Wire Co Crawfordsville Ind
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill
Seneca Wire & Mfg Co Fostoria Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY
Wilson Steel & Wire Co 4840 S Western Av Chicago 9 Ill
Youngstown Sheet & Tube Co Frank Purnell Bldg Youngstown 1 Ohio

WIRE PULLERS & STRETCHERS

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Bethlehem Steel Co 701 E Third Bethlehem Pa
Continental Steel Corp Kokomo Ind
Durbin-Durco 6600 Olive St Louis 5 Mo
Franklin Equipment Co Monticello Iowa
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Louden Machinery Co 261 Court Fairfield Iowa
Ney Mfg Co 948 High Av SW Canton 4 Ohio
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa
Sterling Foundry Co Box 457 Sterling Ill

WIRE, TIE

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich
AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis
Bethlehem Steel Corp 701 E Third Bethlehem Pa
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal
Continental Steel Corp Kokomo Ind
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS
International Nickel Co Inc 67 Wall New York 5 NY
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL
Laclede Steel Co Arcade Bldg St Louis Mo
Mid States Steel & Wire Co Crawfordsville Ind
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY
Republic Steel Corp Republic Bldg Cleveland 1 Ohio
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind
SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY

WIRING, ELECTRICAL, MULTI-OUTLET

Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal
WIREMOLD CO STATION A HARTFORD 10 CONN

WIRING SYSTEMS, REMOTE CONTROL

GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal

WOOD, BALSA

Balsa Ecuador Lumber Corp 500 Fifth Av New York 36 NY
Johnson & Carlson 848 W Eastman Chicago 22 Ill
Luthi (F C) & Co 214 Balter Bldg New Orleans 12 La
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill

WOOD, PLASTIC

Boyle-Midway Inc 22 E 40th New York 16 NY
Durham (Donald) Co Box 804 Des Moines 4 Iowa
National Casein Sales 601 W 80th Chicago 20 Ill
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA
Schalk Chemical Co 351 E Second Los Angeles 12 Cal
Webb Prods Co 216 S "G" San Bernardino Cal

WOOD SEALERS

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron Ohio
AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR TOLEDO 3 OHIO
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS
BRUCE (E L) CO 1648 THOMAS BOX 397 MEMPHIS 1 TENN
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del
Forman-Ford & Co 111 E Second Minneapolis Minn
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
Horn (AC) Co Inc Tenth & 44th Av Long Island City 1 NY
Johnson (S C) & Co Inc 1525 Howe Racine Wis
Kyanize Paints Inc Second & Boston Everett 49 Mass
Lasting Prods Co Franklintown Rd Baltimore 23 Md
Linseed Oil Prods 355 Del Monte Pasadena Cal
Maas & Waldstein 2121 McCarter Hwy Newark 4 NJ
Malex Chemical Corp 1107 E 8th Los Angeles 21 Cal
Moore (Benjamin) & Co 511 Canal New York 13 NY
National Lead Co 111 Broadway New York 6 NY
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo
Plytex Corp 1731 Elston Av Chicago 22 Ill
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS
Sherwin-Williams Co 101 Prospect Av Cleveland Ohio
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn
Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

WOOD SEALERS, KNOT

Forman-Ford & Co 111 E Second Minneapolis Minn
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich
WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN

WOODWORKING MACHINES

American Woodworking Machinery Co 100 Liberty Hackettstown NY
ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH
Beach Mfg Co Mill & Boyer Montrose Pa
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO
Black Bros Inc 503 9th Av Mendota Ill
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO
Buss Machine Wks 8th & Eldon Holland Mich
C H & E Mfg Co 3849 N Palmer Milwaukee 21 Wis
C K L Machinery Co 160 Harrison Oshkosh Wis
Chase Turbine Mfg Co Orange Mass
Chattanooga Machinery Co Bennett Av Chattanooga 4 Tenn
Circo Tool Co 3805 W Lisbon Milwaukee Wis
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal
Cooke (R F) Mfg Co Cooke Pl Orange Mass
CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL
Curtis Machine Corp 1300 E Second Jamestown NY
Dependable Machine Co Box 1235 Sedgefield Greensboro NC
DEWALT INC FOUNTAIN AV BOX 540 LANCASTER PA

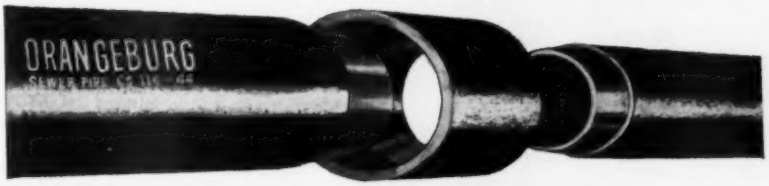
Ekstrom Carlson & Co 1439 Railroad Av Rockford Ill
Enterprise Co S Main Columibana Ohio
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio
FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN
Foster Mfg Co 287 Delaware Buffalo 17 NY
GREENLEE TOOL CO 2136 12TH ROCKFORD ILL
Hanchett Mfg Co 906 N State Big Rapids Mich
Handy Mfg Co 2440 W Lawrence Chicago 25 Ill
Hermance Machine Co Campbell & John Sts Williamsport Pa
Heston & Anderson Div St Paul Engineering & Mfg Co 601 Kirkwood Av Fairfield Iowa
Holmes (E B) Machinery Co Inc 59 Chicago Buffalo 4 NY
Hutchinson Mfg Co Norristown Pa
Jet Tool Co Box 247 Lemon Grove Cal
Jones Superior Machine Co 1270 W North Av Chicago 22 Ill
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio
McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis
MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill
Melby Machinery Mfrs 2302 California Av Everett Wash
Merritt-Monsanto Corp 120 S Niagara Lockport NY
Newman Machine Co Inc 507 Jackson Greensboro NC
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich
Onsrud Machine Wks Inc 3910 W Palmer Chicago 47 Ill
Palmer Machinery Co 2503 Potter Jacksonville 1 Fla
Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio
POOTATUCK CORP 50 SAMMIS PL STRATFORD CONN
PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY
Powermatic Machine Co McMinnville Tenn
Pringle & Brodie Machinery Co 566 W Polk Chicago 7 Ill
Richardson (J S) Co Sheboygan Falls Wis
ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA
Sibley (Edw L) Mfg Co Inc 222 W Main Bennington Vt
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL
STANLEY WKS 111 ELM AV NEW BRITAIN CONN
Stetson-Ross Machine Co 3200 1st Av S Seattle 4 Wash
Turner Mfg Co Wise St Statesville NC
Vonnegut Moulder Corp Madison Av at Caven Indianapolis 2 Ind
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ
Wallace (JD) & Co 136 S California Av Chicago 12 Ill
Whitney (Baxter D) & Son Inc Winchendon Mass
Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass
Yates-American Machine Co 701 Fourth Beloit Wis

WRENCHES

Andree Wrench Co Elmhurst Ill
Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill
Barcalo Mfg Co 225 Louisiana Buffalo 4 NY
Billings & Spencer Co 12 Laurel Hartford 1 Conn
Capewell Mfg Co 60 Governor Hartford 2 Conn
Crescent Tool Co 200 Harrison Jamestown NY
Heller Bros Co Heller Dr Newcomerstown Ohio
Ingersoll-Rand Inc 11 Broadway New York 4 NY
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
K D Mfg Co 526 Plum Lancaster Pa
Owatonna Tool Co 341 Cedar Owatonna Minn
Ox-Wall Tool Co 928 Broadway New York 10 NY
P & C Hand Forged Tool Co Portland 22 Ore
Parker (Charles) Co 50 Hanover Meriden Conn
Peck Stow & Wilcox Co Southington Conn
Penens Corp 3900 Wesley Ter Schiller Park Ill
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal
Sandvik Saw & Tool Corp 47 Warren New York 7 NY
Thor Power Tool Co 175 N State Aurora Ill
Vicheck Tool Co 3001 E 87th Cleveland 4 Ohio
Walworth Co 60 E 42nd New York 17 NY

ORANGEBURG®

THE ROOT-PROOF PIPE



MORE AND MORE BUILDERS AND HOME BUYERS DEMAND ITS MANY, MONEY SAVING ADVANTAGES

When you specify or install Orangeburg Root-Proof Pipe and Fittings, your client gets a pipeline sure to deliver uninterrupted service.

Here are the reasons why the Orangeburg *name* is the mark of quality—quality you can always depend on.

ORANGEBURG PIPE AND FITTINGS—with *self sealing* Taperweld® Joints—keep roots from entering anywhere along the entire pipeline. Strong, tough, resilient Orangeburg resists corrosive ground waters, traffic tremors, earth deflections, temperature variations. Light weight 8-foot lengths and fewer joints speed assembly and cut costs of handling and laying.

ORANGEBURG ROOT-PROOF PIPE is America's most wanted pipe for . . . House-to-sewer (or septic tank) connections, Downspout and Storm Drain lines, other non-pressure outside uses.

Orangeburg *Perforated* Pipe is widely used for . . . septic tank disposal fields, foundation footing drains—also the draining of wet spots in lawns, drive-in theaters, athletic fields, parking lots, airports.

IT PAYS TO SPECIFY AND INSTALL THE LEADER—ORANGEBURG PIPE AND FITTINGS

Informative catalog 306 on request. Write Dept. AB44.

ORANGEBURG MANUFACTURING CO., Inc., ORANGEBURG, N.Y.
West Coast Plant: Newark, California

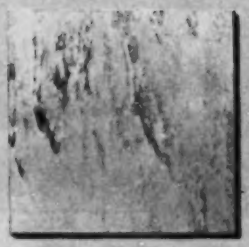
⅛ Bend connected to Orangeburg Pipe making a 45° turn. The famous Orangeburg Taperweld Joints are leak-proof and root-proof.

¼ Bend connected to this down-spout forms a 90° turn. Orangeburg Fittings are quickly and easily connected—save installation costs.

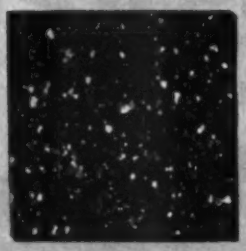
Wye Fitting showing a branch connection. Orangeburg Fittings have the same high quality as Orangeburg Pipe.

HAKO FLOOR TILE . . .

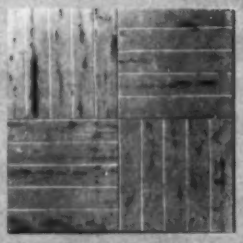
FOR EVERY FLOOR REQUIREMENT



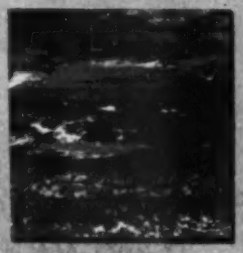
VINYLFLEX PLASTIC FLOOR TILE



POLY-KROME RESILIENT TERRAZZO TYPE TILE



PARQUETRY FLOOR TILE



ASPHALT TILE FLOORING

Vinylflex — DESCRIPTION—An all purpose floor tile 9"x9" standard gauge (.065) or 1/8" in marbleized colors that can be installed on any wood or concrete floor, ON, ABOVE or BELOW grade.

CHARACTERISTICS—VINYLFLEX is grease-proof, resistant to oils, acids, alkalis, gasoline and naphtha . . . is non-shrinking and non-curling . . . lasting color, beauty, resilience, and high slip resistance. Easy to trim and install without special tools.

USES—Any floor area—residential, institutional or commercial.

COLORS—Veined Ebony VM-75, Virgin Green VM-81, Sunrise Yellow VM-87, Bermuda Blue VM-80, Travertine VM-84, St. Michel Gray VM-85, Forest Green VM-86, Cordovan Brown VM-77, Fiesta Red VM-79, Aurisina Marble VM-83, Dover VM-90 and Coralite VM-89

FEATURE STRIPS—Available in white, green, yellow and red in 1", and 2" widths; 18" lengths.

Poly-krome — DESCRIPTION—A 9"x9" floor tile in 1/8" and 3/16" resilient terrazzo-type tile with vivid multi-colored chips, set deep in each tile.

CHARACTERISTICS—POLY-KROME is durable and economical, easy to install, and keep clean. Its inherent toughness gives extremely high wear resistance to all types of indoor traffic ON, ABOVE or BELOW grade.

USES—Any floor area in a house, institution or business establishment that should have a gay, festive terrazzo-type appearance.

COLORS—Brown PK-52, Tan PK-56, Black PK-50, Yellow PK-55, Black PK-58, White PK-59, Green PK-54, Ivory PK-51, Gray PK-53, Red PK-60.

Parquetry FLOOR TILE — DESCRIPTION—A 9"x9" floor tile in 1/8" thickness. Simulates parquet natural oak hardwood beauty at low asphalt tile cost.

CHARACTERISTICS—HAKO PARQUETRY FLOOR TILE can be installed ON, ABOVE or BELOW grade at moderate cost, gives years of service with a minimum of maintenance. Color and veining are completely through entire thickness of each tile.

USES—Hotel lobbies, executive offices, foyers, corridors, schools, hospitals—wherever hardwood floor beauty is desired, and low cost durability of asphalt tile is required.

COLOR—Veined light oak, walnut, maple, natural

Asphalt Tile FLOORING — DESCRIPTION—An inexpensive 9"x9" floor tile in 1/8" and 3/16" thickness, reinforced with asbestos fibres and styrene plastic, marbleized color design.

CHARACTERISTICS—Long life, economy, low maintenance cost, scuff and indentation resistance. Meets all requirement of the Federal Specifications SS-T-306b. Install ON, ABOVE or BELOW grade.

USES—Schools, hospitals, houses, hotels, offices, stores, apartments, building projects and wherever indoor traffic is very heavy and low initial cost is important.

COLORS—Ebony AP-1, Maroon AP-3, Highlight BM-1*, Twilight BM-2, Sunset BM-4, High Noon BM-8*, Sunrise BM-9, Harvest BM-10, Oriental CM-20, Coral Beige CM-21*, Arctic CM-22*, Desert CM-23, Tropical CM-24*, Gray Dawn CM-25*, Spring Green CM-26, Cordova Green CM-264*, Morocco CM-28, Mecca CM-29*, Venetian Red CP-31, Coral Sea DM-30*, Pacific DM-31, Coronation DM-32*, Atlantic DM-33, Dover DM-34, Adriatic DM-35*, White Ruby DM-36*, Sunflower DM-37, Canary EM-46, Tea Rose EM-47, Sea Crest EM-48, French Green EM-49.

FEATURE STRIPS—Green, red, white, tan and black in 1" and 2" widths; and 18" lengths . . . also beveled edging (reducing strip).

COVE BASE—set-on type, height 4" and 6", length 24" in black and maroon. (Asphalt type) can be used with all HAKO floor tile.

***ALSO AVAILABLE IN GREASE-PROOF TILE**

Hachmeister, Inc.
Pittsburgh 30, Pa.
Dept. AB-4

Send full color floor tile catalogs and installation procedures.

Name .....

Address .....

City ..... State .....

SINCE 1903

HACHMEISTER-INC.

PITTSBURGH 30, PA.

Guaranteed by Good Housekeeping

1954 American Builder Directory

SECTION II

BRAND NAMES

Alphabetical List of Building Products and Equipment

BRAND NAMES used to identify principal building products and equipment of major manufacturers are listed in this section in alphabetical order with the names and addresses of manufacturers using the brand names. Trade and brand names popularly used in the building industry are listed irrespective of their registration. Every effort has been made to make this an all-inclusive list. Builders, contractors, retail material dealers and architects will find it easy to use for checking names and addresses of brand-name product manufacturers.

A

ABC Adams Engineering Co Box 936 Little River Branch Miami 38 Fla
ABC Altorfer Bros Co 812 W Washington East Peoria 8 Ill
A B DICK Dick (A B) Co 5700 W Touhy Av Chicago 31 Ill
A-C-E Arro Expansion Bolt Co N Boone Av Marion Ohio
A-AIR-COTE Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
ABBEON Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY
ABESTO CHEMICAL TERMITE CONTROL Abesto Mfg Corp Michigan City Ind
ABESTO FIBERATED Abesto Mfg Corp 131 Wabash Michigan City Ind
ABESTO-GLOW Abesto Mfg Corp 131 Wabash Michigan City Ind
ABESTO LUMICLAD Abesto Mfg Corp 131 Wabash Michigan City Ind
ABESTO QUICK SET PLASTIC Abesto Mfg Corp 131 Wabash Michigan City Ind
ABESTO SEALER Abesto Mfg Corp 131 Wabash Michigan City Ind
ABESTO SEMI-PLASTIC Abesto Mfg Corp 131 Wabash Michigan City Ind
ABSOLUTE Woodfinishing Prods Co 34 Industrial New York 61 NY
ACCRO-LITE Mayes Bros Tool Mfg Co Port Austin Mich
ACE American Device Mfg Co Steeleville Ill
ACE International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
ACKERMAN-JOHNSON Ackerman Johnson Co 625 W Jackson Chicago 6 Ill
ACME Acme Appliance Mfg Co 35 S Raymond Av Pasadena 1 Cal
ACME Acme Brick Co Box 425 Fort Worth Tex
ACME Acme Rubber Mfg Co Box 1001 Trenton NJ
ACME Acme Sash Balance Co 1626 Long Beach Av Los Angeles 21 Cal
ACME Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
ACME Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
ACME QUALITY Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich
ACOUSTI-CELOTEX Celotex Corp 120 S LaSalle Chicago 3 Ill
ACOUSTILE Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
ACOUSTI-RAIL Midwest Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio
ACOUSTONE United States Gypsum Co 300 W Adams Chicago 6 Ill
ACRABORE Acrabore Inc Webster Mass
ACRO Acro Tool & Die Wks 4554 Broadway Chicago 40 Ill
ACT-EASY Speakman Co 30th & Spruce Wilmington 99 Del
ACTINIC Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa
ACT-O-MATIC Sloan Valve Co 4300 W Lake Chicago 24 Ill
ACTRITE Pioneer Mfg Co 3053-57 E 89th Cleveland 4 Ohio
ACUSTI Luminous Ceilings Inc 2500 W North Av Chicago 47 Ill
AD-AIRE Carter-Waters Corp 2440 Pennway Kansas City Mo
AD-JUSTRITE Marino Lathing Supply Co 104-15 100th Ozone Park 16 NY
ADAMANT United States Gypsum Co 300 W Adams Chicago 6 Ill
ADAPTABEL Edwards Co Inc Post Rd Norwalk Conn
ADAPT-A-FRAME Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
ADAPTAHORN Edwards Co Inc Post Rd Norwalk Conn
ADAPT-A-WALL Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
ADD-A-LIFE Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal
ADD-A-RACK Autoyre Co Oakville Conn
ADD-A-UNITS Harrison Steel Cabinet Co 4718 W Fifth Av Chicago 44 Ill
ADDA-STRIP Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
ADDRESSOGRAPH Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio
ADJUSTA-SPRAY Speakman Co 30th & Spruce Wilmington 99 Del
ADMIRAL Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
ADMIRAL HOMES Admiral Homes Inc 149 Water West Newton Pa
ADVENTURER Mansfield Sanitary Pottery Inc Perrysville Ohio
AERO Boyle Midway Inc 22 E Fortieth New York 16 NY
AEROFAN Pryne & Co Inc 140 N Towne Pomona Cal
AEROLITH Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
AEROVENT Aerovent Fabricators Inc Ash & Benton Piqua Ohio
AFCO A & F Tileboard Co Inc Lee & Roy Sts Box 4085 Alexandria La
AGATITE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
AGITAIR Air Devices Inc 185 Madison Av New York 16 NY
AGRICO American Agricultural Chemical Co 50 Church New York 7 NY
AIRCRAFT Simplex Brooder Stove Co 220 Grandville Av SW Grand Rapids 2 Mich
AIR-CRETE Sullivan Co 212 E Trigg Av Memphis Tenn
AIRDOME ROOF LOUVER Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn
AIREX Rex Windows Inc 487 Bonham Av Columbus 3 Ohio
AIR-JET General Prods Co Inc Box 661 Fredericksburg Va
AIR-LITE BRAND Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
AIRLOUVER Swartwout Co 18511 Euclid Av Cleveland 12 Ohio
AIRMASTER Airmaster Corp 4317 Ravenswood Av Chicago 13 Ill
AIR-O-BLIND Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City Okla
AIRO-DOR Weisberg-Baer Co 405 26th Av Long Island City 2 NY
AIRO-VENT Peerless Products 5415-19 St John Kansas City 23 Mo
AIR PLUS Jaeger Machine Co 500 W Spring Columbus 16 Ohio
AIR-SPEED Louisville Cement Co 501 S Second Louisville 2 Ky
AIRSTRIP Mitchell Rubber Prods Inc 2130 San Fernando Rd Los Angeles 65 Cal
AJAX Ajax Building Bracket Co 1551 Rydal Mount Rd Cleveland Heights 18 Ohio
AJAX United Screw & Bolt Corp Cleveland Div 3590 W 58th St Cleveland 2 Ohio
AJAX BRAND Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio
AKBAR Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
AL SEAL Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn
ALABAMA Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham Ala
ALABAX Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
ALADDIN READI-CUT HOUSES Aladdin Co 212 Davidson Bldg Bay City Mich
ALASKA Washington Stove Works Box 919 Everett Wash
ALCO-LITE Aluminum Ladder Co Box 101 Worthington Pa
ALDURA New York Wire Cloth Co 63 Park New Canaan Conn
ALEMITE VERSATAL Stewart Warner Corp 1826 Diversey Pkwy Chicago 14 Ill
ALENCO JALOUSIES Albritton Engineering Corp 2501 Wronton Rd Houston 5 Tex
ALFOL Ingersoll Prods Div Borg Warner Corp 310 S Michigan Av Chicago 4 Ill
ALFOL Reflectal Corp 155 E 44th New York 17 NY
ALGRID Richards (J Merrill) 25 Huntington Av Boston 16 Mass
ALIGNA LOCK Sargent & Co 45 Water New Haven 9 Conn
ALKATITE Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
ALKCO Alkco Mfg Co 424 N Lincoln Av Chicago 18 Ill
ALL AMERICAN Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
ALLEGHENY METAL Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa
ALLEN Allen Steel Prods Inc 2941 E Ten Mile Rd Hazel Park Mich
ALLIANCE WARE Alliance Ware Inc Box 809 Alliance Ohio
ALLITH Allith Prouty Inc 819 N Bowman Av Danville Ill
ALL-OVER-DOOR General Door Mfg Co 1786 N Second Milwaukee 12 Wis
ALL-PURPOSE Autoyre Co Oakville Conn
ALL-WEATHER CRETE Silbrico Corp 5901 W 66th Chicago 38 Ill
ALLWEATHER LOUVERS Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn
ALLWOOD Oregon Lumber Co Baker Ore
ALOXITE Carborundum Co Niagara Falls NY
ALSYNITE Alsynite Co of America 4654 De Soto San Diego 9 Cal
ALTEX Altex Engineering Co 751 Chestnut St NW Atlanta Ga
ALUMA CRAFT Aluma Craft Boat Co Minneapolis Minn
ALUMAROLL Orchard Bros Inc 63 Meadow Rd Rutherford NJ
ALUMEX Mexico Refractories Co Love & Cole Mexico Mo
ALUMI-COUSTIC Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo
ALUMIWALL Bestile Mfg Co State & Sultana Ontario Cal
ALUNDUM Behr Manning Corp Div Norton Co 1554 Seifert Troy NY
ALUNDUM Norton Co 1 New Bond Worcester 6 Mass
ALWINTITE General Bronze Corp Stewart Av Garden City LI NY
AMBROID Ambroid Co 305 Franklin Boston 10 Mass
AMBROID Howe & French Inc 99 Broad Boston 10 Mass
AMCO Algoma Mfg Co Box 252 Algoma Wis
AMER-GLAS Herman Nelson 215 Central Av Louisville Ky
AMERICAN American Metal Moulding Co 146 Coit Irvington NJ
AMERICAN American Well Works 100 No Broadway Aurora Ill
AMERICAN Columbia Geneva Steel-Div United States Steel Corp Russ Bldg San Francisco 6 Cal
AMERICAN Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala
AMERICAN COLONIAL Johns Manville 22 E 40th New York 16 NY
AMERICAN DEVICE American Device Mfg Co Steeleville Ill
AMERICAN DUA-LAPS American Stained Shingle Co 381 W Spruce Columbus Ohio
AMERICAN HOIST American Hoist & Derrick Co 63 S Robert St Paul 1 Minn
AMERICAN SWISS Heller Bros Co Heller Dr Newcomerstown Ohio

AMERICAN TRADITIONAL Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
AMERICAN TUBULAR Universal Mfg Corp W New Castle Zelienople Pa
AMERWOOD Southwood Corp Box 391 Fort Worth Tex
AMIDON FITTINGS Amidon Engineering Co 38369 Cleveland Rd Elyria Ohio
AMPLICALL Rauland-Borg Corp 3515 W Addison Chicago 18 Ill
AMTICO American Biltrite Rubber Co Foot of Perrine Av Trenton 2 NJ
AMWELD American Welding & Mfg Co 190 Dietz Rd Warren Ohio
ANCHOR Anchor Mfg Co 2932 W 26th Chicago 23 Ill
ANCHOR Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
ANCHOR Lufkin Rule Co 1730 Hess Saginaw Mich
ANCHOR Merwin Mfg Co 19th & German Erie Pa
ANCHOR Woodenware Prods Corp 122 N 7th St Louis 1 Mo
ANCHOR-EASY Patton (N E) Co 303 Van Doren Champaign Ill
ANCHOR-LOK Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
ANDROCK Washburn Co 28 Union Worcester Mass
ANDRUS Hoe (R) & Co Inc 910 E 138th New York 54 NY
ANTCHEK Rotenone Prods Co 110 Eaton Pl East Orange NJ
ANTHRA-FLO Coal-O-Matic Stoker Co Main St Trucksville Pa
ANTI-SWEAT Johns-Manville 22 E 40th New York 16 NY
ANTY-CHEK Rockford Paint Mfg Co 200 Sayre Rockford Ill
ANYSTREAM Speakman Co 30th & Spruce Wilmington 99 Del
APCO Aluminum Prods Co 1901 Franklin Av Houston Tex
APEX Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2
APEX Woodenware Prods Corp 122 N 7th St Louis 1 Mo
APEX 100% WHEAT Cleveland Cleaner & Paste Co 7275 Neville AV SW Cleveland 2 Ohio
APMI Associated Plywood Mills Inc Box 672 Eugene Ore
APPLETON Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill
APPLEY LITTLE GIANT Appley (J W) & Son Inc 831 Ninth N St Petersburg Fla
AQUAPEL American Cement Prods 15496 Livernois Detroit Mich
AREX-AUSTOR Arex Co 612 N Michigan Av Chicago 11 Ill
ARID-MIX Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va
ARIN Arex Co 612 N Michigan Av Chicago 11 Ill
ARISTO Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
ARISTO-BRIC Ruberoid Co 500 Fifth Av New York 36 NY
ARISTO-SHAKE Ruberoid Co 500 Fifth Av New York 36 NY
ARISTO-STONE Ruberoid Co 500 Fifth Av New York 36 NY
ARISTOPAVE Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
ARKANSAS TRAVELER Southwest Mfg Co Box 2339 Little Rock Ark
ARKETEX Arketex Ceramic Corp 6 N Walnut Brazil Ind
ARKETEX Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
ARLINGTON Gerber Plumbing Fixtures 232 N Clark Chicago Ill
ARMASEAL Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
ARMATOL Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo
ARM-GLAZE Armstrong Co 1001 E 103d Chicago 28 Ill
ARMOLAC Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
ARMORBOND Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash
ARMORBORD Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash
ARMORON Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash
ARMORPLY United States Plywood Corp 55 W 44th New York 36 NY
ARMORPLY CHALKBOARD United States Plywood Corp 55 W 44th New York 36 NY
ARMSTRONG Armstrong Co 1001 E 103d Chicago 28 Ill
ARMSTRONG Armstrong Furnace Co 850 W 3rd Av Columbus 8 Ohio
ARMSTRONG-BRIDGEPORT Capewell Mfg Co 60-70 Governor Hartford 2 Conn
ARMSTRONG PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind
ARRO-LOCK United States Gypsum Co 300 W Adams Chicago 6 Ill
ARROW Arrow Fastener Co 1 Junius Brooklyn 12 NY
ARROW Arrow-Hart & Hegeman Elec Co 103 Hawthorn Hartford 6 Conn
ARROW Arrow Tank Co Inc 16 Barnett Buffalo 15 NY
ARROW Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
ARROWHEAD Webb Prods Co 216 South "G" San Bernardino Cal
ARROWSMITH Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal
ARTCRAFT Huntington Industries Inc 2368 Prospect Memphis Tenn
ARTCRETE Artcrete Prods Co Eagle & Lawrence Rds Oakmont Del Co Havertown Pa
ARTRIM Superior Industries Inc 3786 Oakwood Av Youngstown 9 Ohio
ASBESTILE Johns-Manville 22 E 40th New York 16 NY
ASBESTOCEL Johns-Manville 22 E 40th New York 16 NY
ASBESTO-SPONGE Johns-Manville 22 E 40th New York 16 NY
ASBESTOS SEAL Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
ASHTONE Bloomington Limestone Corp 900 S Walnut Bloomington Ind
ASHVEYOR Brady Conveyors Corp 20 W Jackson Blvd Chicago 4 Ill
ASPCO Anniston Soil Pipe Co Inc Box 191 Anniston Ala
ASPHALCRETE Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
ATHOL Athol Machine & Foundry Co 82 South St Athol Mass
ATK Atkinson Mfg Co 502-14 S James Ludington Mich
ATKINS SILVER STEEL Atkins Saw Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind
ATLANTIC Portland Stove Foundry Co 57 Kennebec Portland Me
ATLAS Atlas Fence Co 3650 Richmond Philadelphia 34 Pa
ATLAS Atlas Press Co 1973 N Pitcher Kalamazoo Mich
ATLAS Atlas Plywood Corp 1432 Statler Bldg Boston 16 Mass
ATLAS Irvington Form & Tank Corp 20 Vesey New York 7 NY
ATLAS True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
ATLAS Woodenware Prods Corp 122 N 7th St Louis 1 Mo
ATLAS POWER KIND Atlas Press Co 1973 N Pitcher Kalamazoo Mich
ATLAS WORKSHOP Atlas Press Co 1973 N Pitcher Kalamazoo Mich
AUBURN Auburn Foundry Co Inc Dallas & 11th Auburn Ind
AUDITONE United States Gypsum Co 300 W Adams Chicago 6 Ill
AUTO-BLOC Round (David & Son Inc) Box 883 Cleveland 22 Ohio
AUTOGLIDE Stoddard Mfg Co 617 Fourth SW Mason City Iowa
AUTOMATIC Automatic Washer Co Newton Iowa
AUTOSHIFT Hamilton Mfg Co 1316 18th Two Rivers Wis
AW Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa
AW ALGRIP Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa
AWNAIR Awnair Corporation of American 61 Park Av Paterson NJ
AW SUPER-DIAMOND Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa
AZPHLEX Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex
AZROCK Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex
AZTEC Sullivan Co 212 E Trigg Av Memphis Tenn

B

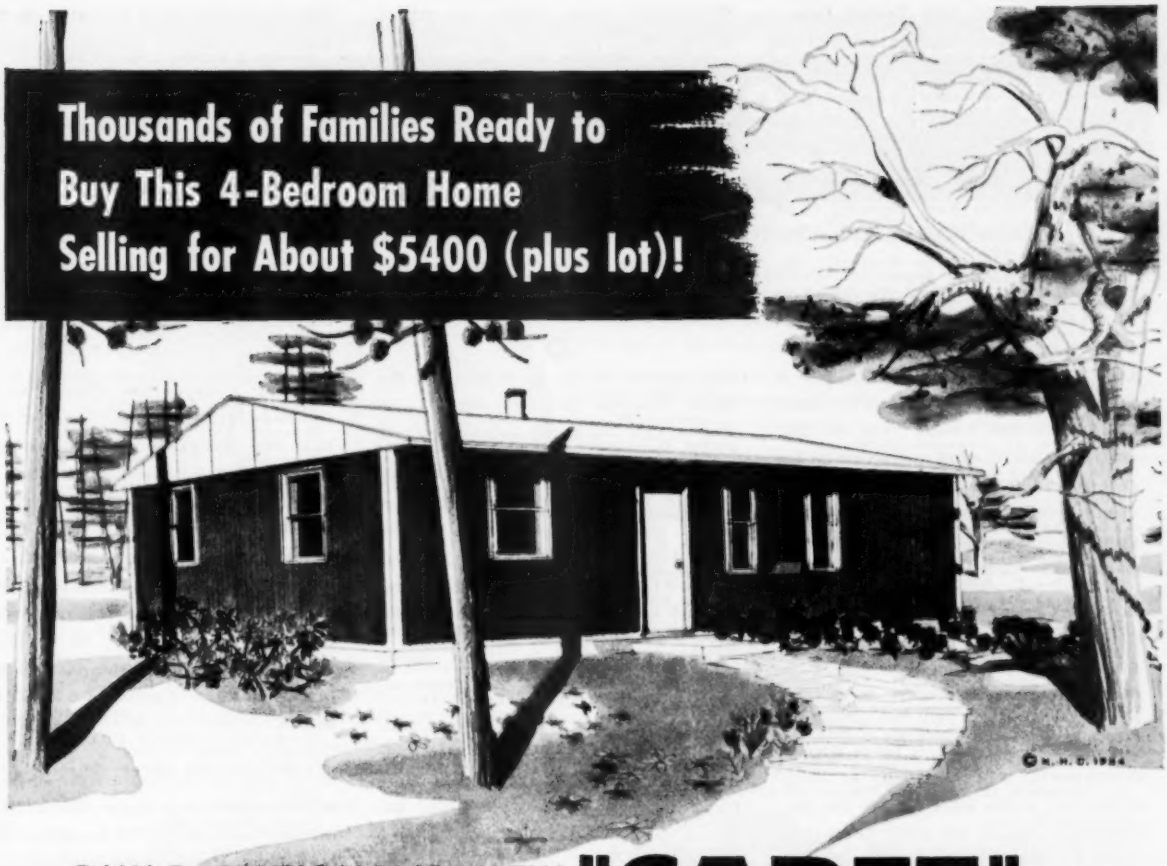
B B Boston Brass Co Inc 137 Bacon Waltham 54 Mass
BB CONVEYOR New London Engineering Co 1700 Division New London Wis
B F GOODRICH Goodrich (B F) Flooring Div 36 Nichols Av Watertown 72 Mass
B/H SCHOOL Breneman Hartschorn Inc 2045 Reading Rd Cincinnati 2 Ohio
B-K POWDER Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa
BLP Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
BABCOCK Babcock (W W) Co Delaware Av Bath NY
BADGER Plumbers Woodwork Co Algoma Wis
BADGER LINE Advance Car Mover Co Inc 112 N Outagamie Appleton Wis
BAKELITE Bakelite Co Div of Union Carbide & Carbon Corp 30 E 42nd New York 17 NY
BAKER Baker Mfg Co 133 Enterprise Evansville Wis
BAKER SCAFFOLDS Baker-Roos Inc 62 W McCarty Indianapolis 6 Ind
BALANCED-FLOW Goulds Pumps Inc 75 Falls Seneca Falls NY
BALDWIN Baldwin Mfg Corp 1290 Central Av Hillside N J
BALL-RITE Cummins Portable Tools Div Cummins Chicago Corp 4740 Ravenswood Av Chicago 40 Ill
BALLYMORE Ballymore Co 139 Pennsylvania Av Wayne Pa
BALSAM-WOOL Wood Conversion Co 1st National Bank Bldg St Paul 1 Minn
BAMBINO DeJong Inc 34-23 36th Long Island City 1 NY
BAMBOOFOLD American Bamboo Corp 171-06 Jamaica Av Jamaica NY
BANNER Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
BANOX W T Calgon Inc 323 Fourth Pittsburgh Pa
BANTAM Grant Pulley & Hdwe Corp 31-63 Whitestone Pkwy Flushing NY
BANTAM Schield Bantam Co 221 Park Waverly Iowa
BANTAM True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
BARBER Barber Gas Burner Co 3704 Superior Av Cleveland 14 Ohio
BARCALO-BUFFALO Barcalo Mfg Co 225 Louisiana Buffalo 4 NY
BARCALOY Barcalo Mfg Co 225 Louisiana Buffalo 4 NY
BARCOL Barber-Colman Co 120 Mill Rockford Ill
BAR-CORODE Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
BARLASTIC Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio
BARNES PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind
BAR-N-SET Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal
BARON Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
BARRETT-HOLT Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
BASOLIT Nukem Prods Corp 111 Colgate Av Buffalo 20 NY
BAY CITY Bay City Shovels Inc 2611 Center Bay City Mich
BAYFLEX Bay State Abrasive Prods Co Union St Westboro Mass
BAYLAUN-BRAND Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
BAY STATE Devoe & Raynolds Co Inc 787 First Av New York 17 NY
BEACON Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
BEACON TRIPLE-SLIDE Allied Metals Inc 14 Hamilton New London Conn
BEADEX CORNER BEND Beadex Sales Inc 4615 Eighth Av NW Seattle 7 Wash
BEADEX CORNER-RITE Beadex Sales Inc 4615 Eighth Av NW Seattle 7 Wash
BEAM-HUGGER Round (David) & Son Inc Box 883 Cleveland 22 Ohio
BEAUTEX Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa
BEAUTI-DOOR Shower Enclosures Inc 1227 W Devon Chicago 40 Ill
BEAUTIFLOR Johnson (S C) & Son Inc 1525 Howe Racine Wis
BEAUTY BARROW Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
BEAUTYCRAFT Beautycraft Kitchens Div Miller Metal Prods Inc 2215 Russel Baltimore 30 Md
BEAUTYDRYER Dearborn Stove Co 1700 W Commerce Dallas Tex
BEAUTY KOTE Kleen Kote Co 601 W 80th Chicago 20 Ill
BEAUTY QUEEN Toledo Desk & Fixture Corp 1020 Ford Rd Maumee Ohio
BEAUTYRANGE Dearborn Stove Co 1700 W Commerce Dallas Tex
BEAUTY-TONE Vita-Var Corp 10 Commerce Ct Newark NJ
BEAUTY WALL SHAKES Douglas Fir Wholesalers Inc Marysville Wash
BEAVER Mansfield Sanitary Pottery Inc Perrysville Ohio
BEAVER Western Reserve Mfg Co 3710 E 93rd Cleveland 5 Ohio
BEE GEE Brown-Graves Co 191 E Miller Akron Ohio
BEHR-CAT Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY
BEHR-MANNING Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY
BELDEN Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
BELL PRIME-MOVER Prime-Mover Co Sampson St Muscatine Iowa
BALMAR Hough Shade Corp 1203 S Jackson Janesville Wis
BE MA CO Beaver Mfg Co 800 S Isis Av Inglewood 1 Cal
BENDIX Crosley Div Avco Mfg Corp 1329 Arlington Cincinnati 25 Ohio
BENDIX-FRIEZ Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY
BENEFIRE Bennett-Ireland Inc 23 State Norwich NY
BENEFORM Bennett-Ireland Inc 23 State Norwich NY
BEN FRANKLIN United States Gypsum Co 300 W Adams Chicago 6 Ill
BENGAL Silver Lake Co 60 Batterymarch Boston 10 Mass
BEN-HUR FREEZER Ben-Hur Mfg Co 634 E Keefe Av Milwaukee 12 Wis
BENNETT BILT Bennett Mfg Co Railroad St Alden NY
BEREA SANDSTONE Cleveland Quarries Co Amherst Ohio
BERGER Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
BERKELEY FLEX-SEAL Allied Metals Inc 14 Hamilton New London Conn
BERMICO Brown Co 150 Causeway Boston 14 Mass
BESSAM Bessam Engineering Co 2528 Overlook Rd Cleveland 6 Ohio
BEST-VENT Per-Fit Prods Corp 1200 E 52d Indianapolis 5 Ind
BESTILE Bestile Mfg Co State & Sultana Ontario Cal
BESTWALL Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
BETSY ROSS Carey-McFall Co 2156 E Dauphin Philadelphia 25 Pa

BEVADOR Jewett Refrigerator Co Inc 2 Letchworth Buffalo 13 NY
BI-FLO Aerovent Fan Co Inc Ash & Beacon Piqua Ohio
BIANCO KITCHEN HOSTESS NOOKS Bianco Mfg Co 2736 Victor St Louis 4 Mo
BIDDLE'S ELASTIC Biddle Co 608-24 S Main St Louis 2 Mo
BIG DIPPER Gerber Plumbing Fixtures 232 N Clark Chicago Ill
BIGMESH Inland Steel Prods Co Box 393 Milwaukee 1 Wis
BIG TIMBER BRAND Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash
BILCO Bilco Co Box 1203 New Haven 5 Conn
BILDRITE Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
BILT-RITE Clifton Mfg Co 323 Pleasant E Waco Tex
BILTRITE DOME Clifton Mfg Co 323 Pleasant E Waco Tex
BILT-WELL CARR-DOR Carr Adams & Collier Co 11th & Jackson Dubuque Iowa
BILT-WELL CLOS-TITE Carr Adams & Collier Co 11th & Jackson Dubuque Iowa
BILT-WELL NU-STYLE Carr Adams & Collier Co 11th & Jackson Dubuque Iowa
BILT-WELL SUPERIOR Carr Adams & Collier Co 11th & Jackson Dubuque Iowa
BINANBATCH Winslow Government Standard Scale Wks Inc 25th & Haythorne Av Terre Haute Ind
BIN-BATCHER Construction Machinery Cos 420 Vinton Waterloo Iowa
BIN-VEYOR Bosworth Mfg Co Mills Rd Avon Ohio
BIRCHINA Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich
BITUSEAL Cheesman Elliot Co Inc 645 Kent Av Brooklyn 11 NY
BLACK ARROW Black Mfg Co 201 Second Harrison NJ
BLACK BEAR Gardner Wire Co 1325 S Cicero Av Chicago 50 Ill
BLACK CAT Black Cat Corp W Laurel Av Hattiesburg Miss
BLACK DIAMOND Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
BLACK FLAG Boyle-Midway Inc 22 E 40th New York 16 NY
BLACKHAWK DUAL-ACTION DOZER Arps Corp New Holstein Wis
BLACKHAWK TRENCH HOG Arps Corp New Holstein Wis
BLACKSHIELD Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
BLACK WHALE Astrup Co 2937 W 25th Cleveland 13 Ohio
BLACK & DECKER Black & Decker Mfg Co 600 E Pennsylvania Av Towson 4 Mich
BLACK & SILVER Hyde Mfg Co Eastford & Clemence Southbridge Mass
BLASTFIRE Houston Blow Pipe & Sheet Metal Wks Houston 1 Tex
BLAZECRETE Johns-Manville 22 E 40th New York 16 NY
BLEND-AIR Coleman Co Inc 250 N St Francis Wichita 1 Kan
BLENDTEX United States Gypsum Co 300 W Adams Chicago 6 Ill
BLINDFOLD De Jong Inc 34-23 36th Long Island City 1 NY
BLOCKEDGE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
BLO-FAN Pryne & Co Inc 140 N Towne Pomona Cal
BLOK-MESH Carter-Waters Corp 2440 Pennway Kansas City Mo
BLOK-SEAL Carter-Waters Corp 2440 Pennway Kansas City Mo
BLOOD BANK REFRIGERATOR Jewett Refrigerator Co Inc 2 Letchworth Buffalo 13 NY
BLU-BLAZE Tesco Inc 110 S Norfolk Tulsa Okla
BLUE BOY Miracle Paint Rejuvenator Co 500 Robert St Paul 1 Minn
BLUE CIRLCE Dunkirk Radiator Corp 85 Middle Rd Dunkirk NY
BLUE DIAMOND Hyde Mfg Co Eastford & Clemence Southbridge Mass
BLUE RAPIDS Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
BLUE RIBBON Goshen Mfg Co 10th & Reynolds Goshen Ind
BLUE RIBBON Miner-Hillard Milling Co 826 Second Natl Bank Wilkes Barre Pa
BLUE SPRUCE Shuford Mills Inc Drawer 340 Hickory NC
BLUE TIP Simonds Saw & Steel Co 470 Main Fitchburg Mass
BLU-FLEX Millers Falls Co Wells & Devon Greenfield Mass
BLU-MAL Millers Falls Co Wells & Devon Greenfield Mass
BOARDMASTER Universal Drafting Machine Co 7960 Lorain Av Cleveland 2 Ohio
BOCADO Glen-Gery Shale Brick Corp Box 182 Wyomissing Pa
BOICE-CRANE Boice-Crane Co 930 W Central Av Toledo 6 Ohio
BOLTA Bolta Prods Sales Inc 70 Garden Lawrence Mass
BOMMER SPRING HINGE Bommer Spring Hinge Co Landrum SC
BONANZA Wooster Brush Co Madison Av Wooster Ohio
BONDCRETE United States Gypsum Co 300 W Adams Chicago 6 Ill
BONDERITE Parker Rust Proof Co 2177 E Milwaukee Av Detroit 11 Mich
BONDEX Reardon Co 7501 Page Av St Louis 14 Mo
BONDRITE Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill
BONDSTONE Emco Cement Prods Shamokin Pa
BONTEX Columbus Coated Fabrics Corp 7th & Grant Av Columbus 16 Ohio
BONUS BUILT Schelm Bros Inc 201 Anna East Peoria 8 Ill
BORD-JAK Maco Corp 1345 Henry Huntington Ind
BORD-PRI Maco Corp 1345 Henry Huntington Ind
BOROLON Simonds Abrasive Co Tacony & Fraley Philadelphia 37 Pa
BOSTITCH Bostitch Inc 1101 Mechanic Westerly RI
BOSTROM Bostrom-Brady Mfg Co Stonewall & Bailey SW Atlanta Ga
BOT-TITE Pyramid Mouldings Inc 5353 W Armstrong Chicago 30 Ill
BRADLEY Bradley Lumber Co of Arkansas Box 390 Warren Ark
BRAINARD Brainard Steel Div-Sharon Steel Corp Griswold St Warren Ohio
BRASCO Brasco Mfg Co 152d & Commercial Av Harvey Ill
BRASS BEAUTY Slaymaker Lock Co 115 S West End Av Lancaster Pa
BREEZEMASTER Acme Equipment Co 213 E Broadway Muskogee Okla
BREEZEMASTER Angel Novelty Co 340 Broad Fitchburg Mass
BREEZEMASTER Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex
BRENLIN LITEPROOF Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
BRESSLER Kol-Master Corp 124 Walberg Oregon Ill
BRICK-N-SEAL Dewatex Mfg Co 424 W 42d New York 18 NY
BRICK-TEX Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
BRIDJOINT United States Gypsum Co 300 W Adams Chicago 6 Ill
BRIGGS BEAUTYWARE Douglas (John) Co 71st & B&O RR Cincinnati Ohio
BRIKSULITE Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
BRIK-TOTER Mar-Rail Conveyor Co 560 York Av Pawtucket RI
BRILLIANT FIRE Ohio Foundry & Mfg Co 629 Slack Steubenville Ohio
BRISTOL'S Bristol Co Waterbury 20 Conn
BRITE-LITE Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio
BRIXMENT Louisville Cement Co 501 S Second Louisville 2 Ky
BROADLITE Mississippi Glass Co 88 Angelica St Louis 7 Mo
BROADWAY Farley & Loetscher Mfg Co Dubuque Iowa
BROAN Broan Mfg Co Inc 1669 N Water Milwaukee 2 Wis
BROCKWAY Brockway Motor Co Inc 106 Central Av Cortland NY
BROLOC Broderick & Bascom Rope Co 4203 Union Blvd St Louis 15 Mo
BROMCO Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati 2 Ohio
BRONCO Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash
BROWN Brown Stove Wks Inc Cleveland Tenn
BROWN BEAR Gardner Wire Co 1325 S Cicero Av Chicago 50 Ill
BROWNSKIN Angier Corp Fountain St Framingham Mass
BROWN-X Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
BRUCE Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
BRULE Brule Incinerator Corp 407 S Dearborn Chicago 5 Ill
BRULE Goder Incinerator Corp 407 S Dearborn Chicago 5 Ill
BRUSH Brush Nail Expansion Bolt Co Greenwich Conn
BRYANT Bryant Electric Co 1421 State Bridgeport 2 Conn
BRYANT Bryant Heater Div 17825 St Clair Av Cleveland 10 Ohio
BUCKEYE Hartwell Bros Hollywood Sta Memphis 8 Tenn
BUCKEYE Wood (Gar) Industries Inc Michigan Blvd Wayne Mich
BUCKEYE FLOOR PAPERS Sandpaper Inc 83 E Water Rockland Mass
BUCYRUS-ERIE International Harvester Co 180 N Michigan Av Chicago 1 Ill
BUDGIT Cohn (E) & Sons Inc 900 "L" SW Cedar Rapids Iowa
BUDGIT Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
BUFFALO Acme Rubber Mfg Co Box 1001 Trenton NJ
BUFFALO Buffalo Mfg Corp 150 Pine Grayslake Ill
BUG-AWAY Westinghouse Electric Corp Lamp Div Bloomfield NJ
BUGMASTER Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY
BUILDERS FRAMES Builders Mfg Co 1514 Brown Marx Bldg Birmingham Ala
BUILT-IN Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY
BULKBINDER Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
BULLCLAM Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis
BULL DOG FLOOR CLIPS New Monarch Machine & Stamping Co 406 SW 9th Des Moines 9 Iowa
BURKAY Smith (A O) Corp Permaglas Heating Div Kankakee Ill
BURKS Decatur Pump Co 2750 Nelson Park Rd Decatur Ill
BURT Burt Mfg Co 44 E South Akron 11 Ohio
BURTON STEEL-HEAD BAND SAWS Burton Saw Co 91 Foster Worcester Mass
BUSHMAN Gensco Tools 1830 N Kostner Av Chicago 39 Ill
BUTTERFLY Cornell Iron Works Inc 36th Av & 13th Long Island City 6 NY

C

CCC Carbola Chemical Co 46 Harris Rd Natural Bridge NY
C-E Crane Electric Industries Eugene Ore
CE CO Cheesman Elliott Co Inc 645 Kent Av Brooklyn 11 NY
C H & E C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis
CID Goulds Pumps Inc 75 Fall Seneca Falls NY
CM Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
C M C Construction Machinery Cos 420 Vinton Waterloo Iowa
C P W Chicago Paints Inc 4500 W 14th Chicago 23 Ill
CABLE HEAT Electromode Corp 45 Crouch Rochester 3 NY
CADET Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
CAHABA Miller & Co Inc Selma Ala
CALBAR Calbar Paint & Varnish Co 2612 Martha Philadelphia 25 Pa
CALCINATOR Calcinator Corp 28th & Water Bay City Mich
CALDWELL Caldwell Mfg Co 64 Commercial Rochester 14 NY
CALKA-MATIC Vital Prods Mfg Co 7500 Quincy Av Cleveland 4 Ohio
CALKMASTER Vital Prods Mfg Co 7500 Quincy Av Cleveland 4 Ohio
CALK-O-TUBE Seal Rite Caulking Co 6335 Lyndon Detroit Mich
CALROD General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
CAMARGO Breneman Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
CAMP Camp Chemical Co Inc 170 Second Av Brooklyn 15 NY
CAMPCRETE Camp Co Inc 6958 S State Chicago 21 Ill
CAMP-O-LITE Camp Co Inc 6958 S State Chicago 21 Ill
CAN-DO Western Reserve Mfg Co 3710 E 93rd Cleveland 5 Ohio
CANNONBALL Starline Inc 300 W Front Harvard Ill
CANVAS KID Canvas Prods Co 2115 Locust St Louis 3 Mo
CAN-VA-TEX Johnson (J W) Co 3100 W Randolph Bellwood Ill
CAPE COD Lockwood Hdwe Co Fitchburg Mass
CAPEWELL Capewell Mfg Co 60-70 Governor Hartford 2 Conn
CAPITOL Acme Rubber Mfg Co Box 1001 Trenton NJ
CAPITOL EASY LIFT Capitol Prods 118 S Third Springfield Ill
CAPITOL LINE Capitol Kitchens 615 E 1st Av Roselle NJ
CAPITOL TAPER SEAL Capitol Prods 18 S Third Springfield Ill
CARBI-TWIST U S Expansion Bolt Co State & PRR York Pa
CARBOLA Carbola Chemical Co 46 Harris Rd Natural Bridge NY
CARBOLINEUM AMERICA C-A Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo
CARBOLOY CEMENTED CARBIDES Carboloy Dept General Electric Co 11177 E Eight-Mile Rd Box 237 Detroit 32 Mich
CARBORA Cortland Grinding Wheels Corp 1 Huntington Chester Mass
CARBORUNDUM Carborundum Co Niagara Falls NY
CARBOSOTA Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
CARDINAL Astrup Co 2937 W 25th Cleveland 13 Ohio
CARLON Carlon Prods Corp 10225 Meech Av Cleveland 5 Ohio
CARPENTERS' UNION Eagle Pencil Co 703 E 13th New York 9 NY
CARRARA Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
CASCADE Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
CASEKING Vulcan Metal Prods 2801 6th Av S Birmingham Ala
CASINO Ekstrom Carlson & Co 1400 Railroad Av Rockford Ill
CAT Caterpillar Tractor Co 600 W Washington East Peoria Ill
CATCH-ALL Cyclone Fence Dept American Steel & Wire Div U S Steel Corp Box 260 Waukegan Ill

CATSPAW Drewy (C) & Co Inc Maple St Kingston 7 Mass
CAULK-O-SEAL Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
CAULKTEX Ever-Plastics Corp 420 Lexington Av New York 17 NY
CAUXEAL X-Pando Corp 43-15 36th Long Island City 1 NY
CECO Ceco Steel Prods Corp 5601 W 26th Chicago 50 Ill
CEDAR-LUX Cedar-Lux Prods Co Inc 3244 Holmes Kansas City Mo
CEDARWALLS Capilano Timber Co Ltd Box 608 Vancouver BC Canada
CEE BREEZE Cee Breeze Aluminum Awning Co 628 Huron Toledo 4 Ohio
CEETEECO Crescent Tool Co 200 Harrison Jamestown NY
CEIL HEAT Homes Inc 5212 Homberg Dr Knoxville Tenn
CEIL-N-VENTOR Universal Blower Co 1090 S Adams Av Birmingham Mich
CELINA Celina Mfg Co Celina Ohio
CELLUMENT Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn
CELO-ROK Celotex Corp 120 S LaSalle Chicago 3 Ill
CELOTEX Celotex Corp 120 S LaSalle Chicago 3 Ill
CEMCOAT Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
CEMENTICO United States Gypsum Co 300 W Adams Chicago 6 Ill
CEMESTO Celotex Corp 120 S LaSalle Chicago 3 Ill
CEMIX CEMENT PAINT Cemix Co 433 Maple Av Downers Grove Ill
CEMIX HEVI-KOTE Cemix Co 433 Maple Av Downers Grove Ill
CENTRAVAC Trane Co 3rd & Cameron LaCrosse Wis
CENTRI-THRIFT Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
CENTURY Century Electric Co 1806 Pine St Louis 3 Mo
CENTURY Century Engineering Corp 401 Third SE Cedar Rapids Iowa
CENTURY Heilig Bros Co Inc 24 W North York Pa
CENTURY Keasbey & Mattison Co Butler Av Ambler Pa
CENTURY National Chemical & Mfg Co 3617 S May Chicago 9 Ill
CENTURY TORCH O MATIC Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa
CERTACOUSTIC Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
CERTIFIED Schelm Bros Inc 201 Anna East Peoria 8 Ill
CERTILE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
CERTUS Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn
CHALLENGER Boice-Crane Co 930 W Central Av Toledo 6 Ohio
CHALLENGER Coffing Hoist Co 800 Walters Danville Ill
CHALLENGER Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
CHALLENGER Hollymade Hardware Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal
CHALLENGER Kol-Master Corp 124 Walberg Oregon Ill
CHALLENGER Penens Corp 3900 Wesley Ter Schiller Park Ill
CHAMBERLIN Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHAMCO Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich
CHAMP Master Lock Co 2600 N 32nd Milwaukee 45 Wis
CHAMPION Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio
CHAMPION United States Gypsum Co 300 W Adams Chicago 6 Ill
CHAMPION Vento Steel Prods Co Inc 250 Colorado Buffalo 15 NY
CHANNELLOCK Champion DeArment Tool Co 1306-16 Main Meadville 1 Pa
CHANNELLOCK International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
CHAN-L-CROS Junior-Pro Prods Co 3206 Morganford Rd St Louis 16 Mo
CHAR-B-Q Majestic Co Hall St Huntington Ind
CHECK-CORD & JUNIOR Lanebro Mfg Co 110 Main Poughkeepsie NY
CHECKERBOARD United States Plywood Corp 55 W 44th New York 36 NY
CHECKPEST Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo
CHELDUOGEAR Chelsea Elevator Co 549 W 52d New York 19 NY
CHELGEAR Chelsea Elevator Co 549 W 52nd New York 19 N Y
CHELNOGEAR Chelsea Elevator Co 549 W 52nd St New York 19 NY
CHEM-O-GLAS Chemold Co 2000 Colorado Blvd Santa Monica Cal
CHENEY Cheney (Henry) Hammer Corp 73 W Mill Little Falls NY
CHENEY Cheney Metal Prods Co 623 Prospect Trenton 5 NJ
CHEROKEE Mosaic Tile Co 1949 Pershing Av Zanesville O
CHESAPEAKE-HUE Weaver (C E) Stone Co Box 96 Reisterstown Md
CHESLER Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY
CHEVRONS Packard (E B) Co Inc 139 Cedar New York 6 NY
CHICAGO Chicago Expansion Bolt Co 1338 W Concord Pl Chicago 22 Ill
CHICAGO Eddy Stoker Corp 4713-19 W North Av Chicago Ill
CHICOPEE Lumite Div Chicopee Mills Inc 47 Worth New York 13 NY
CHIEF Chicago Paints Inc 4500 W 14th Chicago 23 Ill
CHIEF Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
CHILD CRAFT Hamilton Mfg Co 1316 18th Two Rivers Wis
CHILDERS Childers Mfg Co 3620 W 11th Houston 8 Tex
CHILLATORS McQuay Inc 4600 Broadway NE Minneapolis 13 Minn
CHORE BOY Incinerator Prods Co 667 S Post Av Detroit 17 Mich
CHROME CLAD Lufkin Rule Co 1730 Hess Saginaw Mich
CHROME-X Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
CHURCH COREX Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH DELUXE Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH EXCELLO Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH GOTHIC Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH MODERNUS Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH MOLTEX Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH PEMBROKE Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH REGAL Church (C F) Mfg Co Box 471 Holyoke Mass
CHURCH ROYALTON Church (C F) Mfg Co Box 471 Holyoke Mass
CINCH Biddle Co 608-24 S Main St Louis 2 Mo
CINCH National Lead Co 111 Broadway New York 6 NY
CINDER BLOCK PAINT Kleen Kote Co 601 W 80th Chicago 20 Ill
CIPCO Cipco Corp 22d & Cole St Louis 6 Mo
CIRCLE B Buffalo Bolt Co Div Buffalo-Eclipse Corp 101 East Av North Tonawanda NY
CIRCULATOR Majestic Co Hall St Huntington Ind
CIRCU-RAY Temco Inc 4104 Park Av Nashville 9 Tenn
CIRKLAIR Folsom Co Inc 3104 Oak Lane Dallas 10 Tex
CLARKE Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich
CLARY Clary Multiplier Corp 408 Junipero San Gabriel Cal
CLATEX Streator Brick Co Div Hydraulic Press Brick Co 321 E Main Streator Ill
CLAUSS Henkel-Clauss Co 319 S Arch Fremont Ohio
CLEAR-COAT American Sta-Dri Co 4019 38th Brentwood Md
CLEARTOX Abesto Mfg Corp 131 Wabash Michigan City Ind
CLEEN Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
CLEVELAND Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio
CLEVELAND Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio
CLIFTON Clifton Mfg Co 323 Pleasant E Waco Tex
CLIMATE CHANGER Trane Co 3rd & Cameron LaCrosse Wis
CLIMATE MASTER Hess Co 1855 S 54th Av Chicago 50 Ill
CLIMAX Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio
CLINTON Clinton Metallic Paint Co Arthur St Clinton NY
CLIP-ON Autoyre Co Oakville Conn
CLIPPER Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
CLIPPER Clipper Mfg Co 2800 Warwick Kansas City Mo
CLIPPER Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
CLIPPER Trade-Wind Motorfans Inc 5725 S Main Los Angeles 37 Cal
CLIPPER ABRASIVES Sandpaper Inc 83 E Water Rockland Mass
CLIPPER CCU Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
CLIPPERETTE Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
CLIPPER LOW-BOY Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal
CLOVER Clover Mfg Co 333 Main Norwalk Conn
CLOVEX O M Scott & Sons Co Marysville Ohio
CLUTCH United Screw & Bolt Corp Cleveland Div 3590 W 58th Cleveland 2 Ohio
CLYDE Clyde Cutlery Co Clyde Ohio
COAST Alltite Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal
COAST PAK-FELT Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal
COLD-BAR Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
COLD GENERATOR Trane Co 3rd & Cameron LaCrosse Wis
COLE AUTOMATIC Cole Mfg Co 705 Raymond Austin Tex
COLE DELUXE Cole Mfg Co 705 Raymond Austin Tex
COLE HOT BLAST Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill
COLLMER PATTERN DRESSERS Collmer Bros 420 S St Joseph South Bend 1 Ind
COLLOPAKES Cabot (Samuel) Inc 141 Milk Boston 9 Mass
COLONIAL Colonial Bronze Co Winsted Rd Torrington Conn
COLONIAL Reflecto Letters Inc 411 E 101st New York 29 NY
COLOR-CRAFT Color-Craft Prods Inc 5035 Bellevue Detroit 11 Mich
COLOR-GLAZE Colorcrete Industries Inc 24th & Ottawa Holland 1 Mich
COLOR-GRAINED Ruberoid Co 500 5th Av New York 36 NY
COLOR-TEX Old American Roofing Mills 7600 Truman Rd Kansas City Mo
COLORADO PINK STONE Jacobson-Evans Stone Co Inc 3232 E 31st Tulsa Okla
COLORBESTOS Johns-Manville 22 E 40th New York 16 NY
COLORCRETE Colorcrete Industries Inc 24th & Ottawa Holland 1 Mich
COLORSOL Martin-Senour Co 2520 S Quarry Chicago 8 Ill
COLOSLATE Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
COLOTRYM Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
COLUMBIA Columbia Mfg Co 845 S 9th Louisville 3 Ky
COLUMBIA Columbia-Southern Chemical Corp 632 Fort Duquesne Blvd Pittsburgh 22 Pa
COLUMBIA Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
COLUMBIA BRICK Columbia Brick Wks 1320 SE Water Av Portland 14 Ore
COM 500 SUPER Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill
COM SCRUBABLE Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill
COMASCO Consolidated Machinery & Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal
COMBUSTIONEER Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio
COMET Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
COMET Consolidated Machinery 7 Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal
COMET Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
COMFORTROL Weather Seal Inc 24 Huston Barberton Ohio
COMMANDER Commander Door Inc Maple Av & B&O RR Holmes Pa
COMMANDER Speakman Co 30th & Spruce Wilmington 99 Del
COMMODORE Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
COMPOUND M Camp Co Inc 6958 S State Chicago 21 Ill
CONCORD Concord Woodworking Co Inc 10 Behariel West Concord Mass
CONCORD Reflecto Letters Inc 411 E 101st New York 29 NY
CONDOR Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ
CONDUIT OF COLUMBUS Conduit Pipe Prods Co 157 W Fulton St Columbus Ohio
CONDUIT WEATHERMASTER SYSTEM Carrier Corp 300 S Geddes St Syracuse NY
CONGOWALL Congoleum-Nairn Inc 195 Belgrave Dr Kearny NJ
CONGRID Richards (J Merrill) 25 Huntington Av Boston 16 Mass
CONNECTICUT BURGLAR ALARM Connecticut Telephone & Elec Div 70 Britannia Meriden Conn
CONNER TYPE Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
CONOLITE Continental Can Co Conolite Dept 16th & Locust Wilmington Del
CONRAD Glen-Gery Shale Brick Corp Box 182 Wyomissing Pa
CONSERVO Cabot (Samuel) Inc 141 Milk Boston Mass
CON-SOL Consolidated Industries Inc Mixville Rd West Cheshire Conn
CONSOWELD Consolidated Water Power & Paper Co Ahdawagam Div Wisconsin Rapids Wis
CONSUMERS Consumers Glue Co 1515 Hadley St Louis 6 Mo
CONTEMPORARY Gerber Plumbing Fixtures 232 N Clark Chicago Ill
CONTINENTAL Wabash Screen Door Co 310 S Michigan Av Chicago 4 Ill
CONTINENTAL Robeson Cutlery Co Inc 3646 Case Perry NY
CONTREAT Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo
CONVASEAL Meadows (W R) Inc 2-18 Kimball Elgin Ill
CON-VAY-IT CONCRETE SPECIAL American Conveyor Co 1115 W Adams Chicago 7 Ill
CONVENIENT LIVING Home Planners Inc 16310 Grand River Detroit 27 Mich



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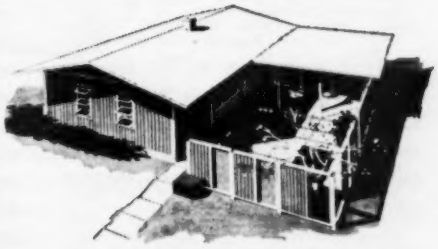

3-Bedroom "RANGER" with Carport, Covered Patio and Garden Court

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COPPER-BOUND Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill
COPPERSKIN Angier Corp Fountain St Framingham Mass
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COP-R-TOX Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
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CORALUX Schundler (F E) & Co Inc 504 Railroad Joliet Ill
CORDOVA LIMESTONE Texas Quarries Inc Box 91 Austin Tex
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COR-O-LAST Concor Co 4550 Main Kansas City Mo
CORONATOR Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio
COROX Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa
CORRULUX Corrulux Div Libbey Owens Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex
CORTEX Cortland Grinding Wheels Corp 1 Huntington Chester Mass
CORTLAND BRAND Wickwire Bros Inc 189 Main Cortland NY
COSALCO Colonial Sales Corp 928 Broadway New York 10 NY
COSMO-COLOR Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
COSMO-SPAR Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
COTSWOLD Hope's Windows Inc 84 Hopkins Av Jamestown NY
COUNTERFLO Dravo Corp Fifth & Liberty Av Pittsburgh 22 Pa
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COVER-DRI Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
CRADLE CALKER Vital Prods Mfg Co 7500 Quincy Av Cleveland 4 Ohio
CRANEMOBILE Bay City Shovels Inc 2611 Center Bay City Mich
CRANE WAGON Bay City Shovels Inc 2611 Center Bay City Mich
CREO-DIPT STAINS Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill
CRESCENT Crescent Tool Co 200 Harrison Jamestown NY
CRESCENT Enterprise Co S Main Columbiana Ohio
CRES-LITE Crescent Bronze Powder Co 116-122 W Illinois Chicago 10 Ill
CRESTOLOY Crescent Tool Co 200 Harrison Jamestown NY
CRETITE Calbar Paint & Varnish Co 2612 N Martha Philadelphia 25 Pa
CRIS CROS STEEL BRIDGING Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn
CROFOOT Crofoot Mfg Co 217 Evergreen Mount Prospect Ill
CROSBY BLOCKS American Hoist & Derrick Co 63 S Robert St Paul Minn
CROSBY CLIPS American Hoist & Derrick Co 63 S Robert St Paul Minn
CROSS-CIRCULATION Moore Dry Kiln Co 1220 W State Jacksonville Fla
CROSSLY ALUMINUM AWNING WINDOW Crossly Window Corp 3550 NW 71st Miami Fla
CROSSLY SURESEAL JALOUSIE Crossly Window Corp 3550 NW 71st Miami Fla
CROWN Crown Stove Wks 4627-35 W 12th Pl Chicago 50 Ill
CROWN Marblehead Lime Co 300 W Washington Chicago 6 Ill
CROWN Ohio Can & Crown Co 16th & Harsh Massillon Ohio
CROWN Sloan Valve Co 4300 W Lake Chicago 24 Ill
CROWN BRAND Gensco Tools 1830 N Kostner Av Chicago 39 Ill
CROWN PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind
CRYSTAL Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
CRYSTAL TIPS McQuay Inc 1600 Broadway NE Minneapolis 13 Minn
CRYSTOLON Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY
CRYSTOLON Norton Co 1 New Bond Worcester 6 Mass
CUPRINOL Cuprinol Div Darworth Inc 56 Maple Simsbury Conn
CUPRISOTE Protexol Corp 162 Market Kenilworth NJ
CUREX Pavinoleum Inc 1239 St Nicholas Av New York 32 NY
CURTISTRIP Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
CUSH-N-BLO Ideal Industries Inc 1335 Park Av Sycamore Ill
CUSTOM-AIR Trane Co 3rd & Cameron LaCrosse Wis
CYCLONE Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
CYCLONE Cyclone Fence Dept American Steel & Wire Div U S Steel Corp Box 260 Waukegan Ill
CYCLONE Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill
CYCLONE HAND Cyclone Seeder Co Urbana Ind
CYCLONE POWER Cyclone Seeder Co Urbana Ind
CYCLOTHERM United States Radiator Corp Buhl Bldg Detroit 31 Mich
CYL-O-LATCH Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY

D

D-B Dura-Bilt Tool Co Inc 60 North Av Box 216 Natick Mass
DBCO Densmore Brick Co 162 Hanover Lebanon NH
DAD & LAD Dad & Lad Co New Lenox Ill
DAISY Quinn Wire & Iron Wks 1200 Cedar Rd Boone Ia
DALLAS HUT Texas Housing Co 9001 Denton Dr Dallas 9 Tex
DALTON Dalton Mfg Co 20 S Central Av St Louis 5 Mo
DAMIT Quigley Co Inc 527 Fifth Av New York 17 NY
DAMP-VENT Damp-Vent Co 210 17th Box 203 Bettendorf Iowa
DANBURY Danbury Rubber Co Inc Shelter Rock Rd Danbury Conn
DANDIE Kwik-Mix Co Port Washington Wis
DANDIE MIXERS Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
DANDY BOY Midland Co 1200 W Rawson Av South Milwaukee Wis
DA-N-ITE Premax Prods Div Chisholm-Ryder Co Inc Highland & College Avs Niagara Falls NY
DARLINGTON Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
DARRA-JAMES Toolkraft Corp Plainfield St Springfield 1 Mass
DART Dart Mfg & Sales Co 1002 S Jason Denver Colo
DART Dart Union Co 134 Thurbers Av Providence 5 RI
DAVID ROUND Round (David) & Son Inc Box 883 Cleveland 22 Ohio
DAVIS & WELLS Consolidated Machinery & Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal
DAVIS SAW FILER Chattanooga Saw Wks 1512 Williams Chattanooga Tenn
DAYTON Grainger (W W) Inc 118 S Oakley Blvd Chicago 12 Ill
DAYTON SURE GRIP Dayton Sure Grip & Shore Co 504 Kercher Miamisburg Ohio
DAZEY Dazey Corp Warne & Carter Av St Louis 7 Mo
DEARBORN Dearborn Stove Co 1700 W Commerce Dallas Tex
DEAROSA Vernontown Mfg Co Inc 338 W Lincoln Av Mt Vernon NY
DECORA Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
DECORATOR Tilley (John S) Ladders Co 100-122 Second Watervliet NY
DECORLATEX Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
DECRA-LITE Beco Corp 3035 Canton Dallas Tex
DEEP-TREAT Chapman Chemical Co 707 Dermon Bldg Memphis Tenn
DEKADOOR United States Plywood Corp 55 W 44th New York 36 NY
DEKALEATHER United States Plywood Corp 55 W 44th New York 36 NY
DEKALUX United States Plywood Corp 55 W 44th New York 36 NY
DEKATILE United States Plywood Corp 55 W 44th New York 36 NY
DELCO CONDITIONAIR Delco Appliance Div General Motors Corp Lyell & Whitney Rochester NY
DELCO-HEAT Delco Appliance Div General Motors Corp Lyell & Whitney Rochester NY
DELFAIR Fair (D L) Lumber Co Box 309 Louisville Miss
DELUXE DeLuxe Metal Furniture Co 402 Struthers Warren Pa
DELUXE Mengel Co 4th & Colorado Louisville 1 Ky
DELUXE Miracle Paint Rejuvenator Co 500 Robert St Paul 1 Minn
DELUXE Premax Prods Div Chisholm-Ryder Co Inc Highland & College Avs Niagara Falls NY
DELUXE Vogue Mfg Co 2311 Taylor Fort Wayne 6 Ind
DEMPSTER Dempster Mill Mfg Co 711 S 6th Beatrice Nebr
DENISON Denison Corp 1890 NE 146th North Miami 6 Fla
DENSITE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
DENSULITE Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
DES LAURIERS Ideal Cabinet Corp 2903 Central Evanston Ill
DESMOND SIMPLEX Desmond-Stephan Mfg Co 425 S Walnut Urbana Ohio
DETECTO Detecto Scales Inc 540 Park Av Brooklyn 5 NY
DETECT-O-GRAM Detecto Scales Inc 540 Park Av Brooklyn 5 NY
DETJEN Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY
DEVAC GLASS WALLS Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn
DEVOE Devoe & Raynolds Co Inc 787 First Av New York 17 NY
DEWALT DeWalt Inc Fountain Av Box 540 Lancaster Pa
DEWEY-SHEPARD Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind
DEXATILE United States Plywood Corp 55 W 44th New York 36 NY
DEXTER Russell Harrington Cutlery Co 44 River Southbridge Mass
DEXTER BRAND Scottdale Wood Prods Inc Box 36 Scottdale Pa
DEXTER LIFETIME Dexter Lock Co Subsid National Brass Co 1601 Madison Av SE Grand Rapids 2 Mich
DEXTRA-LITES Swivelier Co Inc 43 34th Brooklyn NY
DIAL-SET Kol-Master Corp 124 Walberg Oregon Ill
DIALTEMP Electriglas Corp Newbridge & Windsor Rds Bergenfield NJ
DIAMIDE Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ
DIAMOND Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ
DIAMOND Reliable Metal Novelty Co Inc 25 Elm Av Mount Vernon NY
DIAMOND Speakman Co 30th & Spruce Wilmington 99 Del
DIAMOND BRAND Chain Link Fence Corp 4301 W 69th Chicago 29 Ill
DIAMOND S Fitler (Edwin H) Co Devereaux & Milnor Philadelphia 24 Pa
DIAMOND T Diamond T Motor Car Co 4401 W 26th Chicago 23 Ill
DIANA FYRBAN Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
DIE-CUT STRAP Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
DIENER'S Diener (George W) Mfg Co 400 N Monticello Av Chicago 24 Ill
DIETZ Dietz (R E) Co 225 Wilkinson Syracuse 1 NY
DIFFUSAIRE Hart & Cooley Mfg Co 500 E Eighth Holland Mich
DIFUSO Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich
DIFUSOLIER Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich
DIRECT-A-CALL Connecticut Telephone & Elec Div 70 Britannia Meriden Conn
DISHMAID Dishmaid Inc 5900 Euclid Av Cleveland 3 Ohio
DISH WHIZ Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 3 Cal
DISPOSALL General Electric Co Major Appliance Div 310 W Liberty Louisville Ky
DISPOSALL Goder (Joseph) Incinerators 5121 Ravenswood Chicago 40 Ill
DITCH WITCH Charles Machine Wks 625-30 Birch Perry Okla
DIVCO Division Lead Co 7742 W 61st Pl Summit Ill
DIXON Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ
DODGE CORK BULLETIN BOARD Dodge Cork Company Inc Laurel & Manor Lancaster Pa
DODGE VINYL-CORK TILE Dodge Cork Co Inc Laurel & Manor Lancaster Pa
DO-IT-SHOP Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 40 Ill
DOLPHIN Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
DOMESTIC Woodenware Prods Corp 122 N 7th St Louis 1 Mo
DONOVAN WINDOWS Universal Window Co 950 Parker Berkeley 10 Cal
DORFLO EZ-Way Sales Inc St Paul Park Minn
DORSEY CUTTER Dorsey Trailers 401 Hickman Elba Ala
DORSEY TRAILERS Dorsey Trailers 401 Hickman Elba Ala
DOR-TITE Durkee-Atwood Co 215 NE 7th Minneapolis Minn
DOUBLE-WHITE Cabot (Samuel) Inc 141 Milk Boston Mass
DOUBLE X Schalk Chemical Co 351 E Second Los Angeles 12 Cal
DOUBLEX Blue Ridge Glass Corp Libbey Owens-Ford-Sales Agent Nicholas Bldg Toledo 3 Ohio
DOUBLEX Johns-Manville 22 E 40th New York 16 NY
DOUGLAS CRESTLYN Douglas Crestlyn International Inc 901 Girard NE Washington 17 DC
DOZERMOBILE Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
DRAFTMASTER Stacor Equipment Co 768 E New York Av Brooklyn 3 N Y
DRAIN DOCTOR Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati 2 Ohio
DRAMEX Reardon Co 7501 Page Ave St Louis 14 Mo

for fireplaces with more heat delivery and durability, SELL

HEATFORMS* and *Superior* FORM DAMPERS

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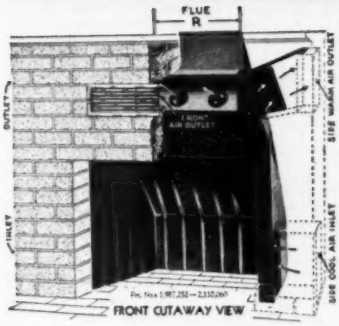
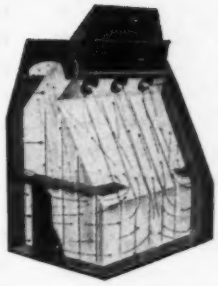




HEATFORM MODEL "A"

Shown at left above with part of masonry cutaway; at right above (rear and side view) with outer lining removed. Arrows demonstrate air circulation through heating chambers and contact of air to all heating surfaces.

HEATFORM is a double-walled metal unit (hearth to flue) around which anyone can easily build the masonry to complete a fireplace of any design. Its air chambers capture and circulate through the home a large amount of heat lost up the chimney by the old-fashioned fireplace.

HEATFORM adds but little to the total cost of the finished fireplace. It consists of the firebox, throat, smoke-dome and properly located damper, and thus saves labor and material.

HEATFORM has all the good qualities of any other heat circulating unit, PLUS the following exclusive advantages:

- ribs individually formed into the boiler plate metal of the firebox give much greater strength than flat metal as well as being more attractive.
- nothing to rust out . . . all metal parts beneath the chimney sealed in masonry.
- more heat delivery because air chambers surround the firebox and upper front and side walls of the throat, adding extra heating surface.
- connecting air passages at each end of and through the throat eliminate dead-air pockets, assuring contact of air to all heating surfaces and greater air circulation.

• • •

HEATFORM Model "S" (at left) for the modern corner fireplace with right or left side open. Has all the features of Model "A", plus greater view of the fire. Model "M" (not shown) has the front and both sides open.

Special lintel angle bars and corner posts available for "S" and "M". Custom-built drape screens available for all models and sizes.

SUPERIOR FORM DAMPERS

These dampers are especially designed for use where the extra heat produced by HEATFORM is NOT a prime factor, but to avoid smoke troubles primarily due to faulty construction of the throat . . . the most important part of the fireplace.

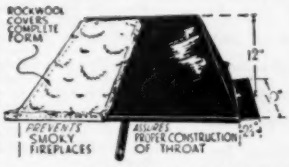
The damper is pivoted at the proper point and swings backward to an open position, but never beneath the chimney flue. This prevents downdraft wind currents from entering the throat, assuring a perfect draft.

SUPERIOR FORM DAMPERS save more than HALF THEIR COST in labor . . . no forms to build, bricks to cut, or throat to plaster.

SUPERIOR FORM DAMPER

(Model "L")

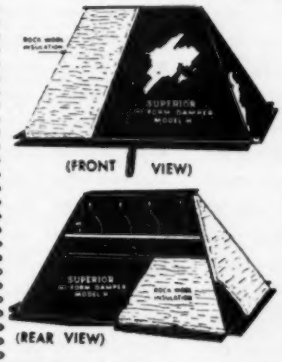
—for the conventional fireplace

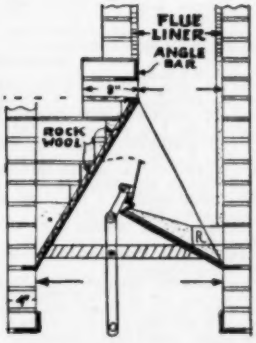


The form and all parts of the Superior Form Damper are constructed of heavy plate steel for lifetime service. No brittle cast-iron parts to break in shipping, handling or usage. The use of the blanket of rockwool, provided with each unit, is the only proven method of absorbing expansion of metal to prevent cracking of masonry.

SUPERIOR HI-FORM DAMPER MODEL "H"

—for the modern fireplace





SUPERIOR HI-FORM Model "H" Damper is especially designed for modern fireplaces using a single smoke flue; such as a fireplace with the front and one or more sides open or, a fireplace opening through between two rooms (see section cut above). Superior Hi-Form is the only design damper we can conscientiously recommend for the modern fireplace.

SUPERIOR FORM DAMPERS have been standard specification by the Building Profession for the past 30 years in the West and are now available through distributors and dealers throughout the entire country.

DEPT. AB 542
1708 E. 15th St.
LOS ANGELES 21, CALIF.

**HEATFORM is the registered trade mark of Superior Fireplace Company.*

SUPERIOR FIREPLACE CO.

DEPT. AB 542
601 North Point Road
BALTIMORE 6, MARYLAND

OUR EAST AND WEST COAST FACTORIES MAKE THIS MERCHANDISE QUICKLY AVAILABLE THROUGH BUILDING SUPPLY AND LUMBER DEALERS EVERYWHERE

PIONEER DESIGNERS AND MANUFACTURERS OF THE MOST EFFICIENT AND DURABLE LINE OF HEAT CIRCULATING FIREPLACE UNITS AND FORM DAMPERS

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DREMEL SANDERS Dremel Mfg Co 2409 18th Racine Wis
DRESDEN Dresden Mfg Co 2375 Walnut Av Long Beach 6 Cal
DRESS-ATORY Regal Cabinet Corp 92 Third Brooklyn 31 NY
DRI-CEIL Homes Inc 5212 Homberg Dr Knoxville Tenn
DRI-GAS Dri-Gas Co 343 S Dearborn Chicago 4 Ill
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DUETTE Miami Cabinet Div Carey (Philip) Mfg Co 1950 Grand Av Middletown Ohio
DUGAN'S Dugan Stone Patcher & Stain Prods 8115 Kenwood Av Chicago Ill
DUKANE Dukane Corp 200 N 11th St Charles Ill
DU-KWIK Chicago Paints Inc 4500 W 14th Chicago 23 Ill
DULAMEL Benjamin Moore & Co 511 Canal New York 13 NY
DUMPCRETE Maxon Construction Co Inc 131 N Ludlow Dayton 2 Ohio
DUMP-IT Wood (Gar) Industries Inc Michigan Blvd Wayne Mich
DUMP-O-MATIC Wood (Gar) Industries Inc Michigan Blvd Wayne Mich
DUMPOVER Construction Machinery Cos 420 Vinton Waterloo Iowa
DUNKIRK Dunkirk Radiator Corp 85 Middle Rd Dunkirk NY
DUO Illinois Lock Co 822 S Ada Chicago 7 Ill
DUO-WAY Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
DUPLEX Chase Brass & Copper Co Inc 236 Grand Waterbury 20 Conn
DUPLEX United States Gypsum Co 300 W Adams Chicago 6 Ill
DUPLEX ADJUSTABLE Duplex Inc 634 N LaPier Dr Los Angeles 46 Cal
DUPLEX PRE-SET Duplex Inc 634 N LaPier Dr Los Angeles 46 Cal
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DURA BRITE Century Industries Inc 1521 W 35th Chicago 9 Ill
DURACHROME Trenton Pipe Nipple Co 626 Brunswick Av Box 1234 Trenton NJ
DURACO Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Texas
DURACUT Bay State Abrasive Prods Co Union St Westboro Mass
DURALINE Universal Drafting Machine Co 7960 Lorain Av Cleveland 2 Ohio
DURALITE Aluminum Home Prods Co Box 10021 Carr St & Southern Ry Knoxville Tenn
DURALL New York Wire Cloth Co 63 Park New Canaan Conn
DURA-LOK Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
DURALUM Pacific Wire Prods Co 1955 E 16th Los Angeles Cal
DURAMARK Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
DURA-PLUG Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
DURA-PROOF Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa
DURA-SEAL Zegers Inc 8090 South Chicago Av Chicago 17 Ill
DURATITE Webb Prods Co 216 South G San Bernardino Cal
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DURO Pacific Wire Prods Co 1955 E 16th Los Angeles Cal
DUROID Pacific Wire Prods Co 1955 E 16th Los Angeles Cal
DUROLASTIK Weatherguard Service Inc 564 Jackson Av New York 55 NY
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DURON United States Gypsum Co 300 W Adams Chicago 6 Ill
DUROTEX Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill
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DUTCH BRAND Van Cleef Bros Inc 7800 S Woodlawn Av Chicago 19 Ill
DUXBAC Logan-Long Co 6600 S Central Av Chicago 38 Ill
DUX-BAK Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
DUX SULATION Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill
DWYER KITCHENS Dwyer Prods Corp Calumet & Holiday Michigan City Ind
DYNA-FLASH Milwaukee Electric Tool Corp 5356 W State Milwaukee 8 Wis
DYNALITE True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
DYNAMIC True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
DYNO-MITE Millers Falls Co Wells & Devon Greenfield Mass

E

E Z Berkeley Specialties Co 899 Gilman Berkeley 10 Cal
E-Z DRIVE Signode Steel Strapping Co 2600 N Western Av Dept 113 Chicago 47 Ill
E-Z-GLAZE Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
E Z GLAZE Farley & Loetscher Mfg Co Dubuque Iowa
E-Z GLIDE Engineered Prods Co 129 Smith Box 118 Flint Mich
E Z KLEEN Research Prods Corp 1015 E Washington Av Madison 10 Wis
E-Z ON Baltz (Robert N) & Co Inc 1009 Harvard Terrace Evanston Ill
E-Z PATCH Sullivan Co 212 E Trigg Av Memphis Tenn
E-Z ROLL Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
E Z UP Roach & Musser Co Muscatine Iowa
E Z VENT Roach & Musser Co Muscatine Iowa
EAGLE Eagle Electric Mfg Co Inc 23-10 Bridge Plaza S Long Island City 1 NY
EAGLE Eagle Pencil Co 703 E 13th New York 9 NY
EAGLE Four Wheel Drive Co E 12th & Auto Clintonville Wis
EAGLE-PICHER Eagle-Picher Co American Bldg Cincinnati 1 Ohio
EASY Detroit Surfacing Machine Co 1337 8-Mile Rd Detroit Mich
EASY LIVING Universal-Rundle Corp Box 960 New Castle Pa
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ECONOMASTER Economaster Sales Inc 120 Ninth Av N Nashville Tenn
ECONOMATIC Electriglas Corp Newbridge & Windsor Rds Bergenfield NJ
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ECONOMY Arex Co 612 Michigan Av Chicago 11 Ill
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ETLING UTILITY WINDOW Weather-Seal Inc 24 Huston Barberton Ohio
ETLING WINDOW Etling Window 24 Huston Barberton Ohio
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EVANEER Evans Prods Co 13101 Eckles Rd Plymouth Mich
EVANS Evans & Co 400-416 Trumbull Elizabeth NJ
EVANS WHITE-TAPES Evans & Co 400-416 Trumbull Elizabeth NJ
EVEN LINE Rotary Clothes Dryer Co Inc 836-46 Lawrence Allentown Pa
EVEN-TEMP Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
EVER-FAST Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
EVERFAST Howe & French Inc 99 Broad Boston 10 Mass
EVERGUARD Weatherguard Service Inc 564 Jackson Av New York 55 NY
EVERJET Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
EVERLAST Acme Brick Co Box 425 Fort Worth Tex
EVERLASTIC Acme Brick Co Box 425 Fort Worth Tex
EVERLASTIC Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
EVERLASTING Wall (P) Mfg Co Erie St Grove City Pa
EVERSET Acme Brick Co Box 425 Fort Worth Tex
EVERSPRAY Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill
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EXECUTONE Executone Inc 415 Lexington Av New York 17 NY
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EXTERCOTE National Chemical & Dye Co 3617 S May Chicago 9 Ill
EZEBILT Universal Mfg Corp W New Castle Zelienople Pa
EZI-KLEEN Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
EZ-WAY EZ-Way Sales Inc St Paul Park Minn
EZY-LIFT Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill

F

FDCG Sedgwick Machine Wks 154 W 15th New York 11 NY
F L Farley & Loetscher Mfg Co Dubuque Iowa
FPF Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn
F W D Four Wheel Drive Auto Co E 12th Clinton Wis
F & L DE LUXE Farley & Loetscher Mfg Co Dubuque Iowa
F & W Flint & Walling Mfg Co Inc 95 Oak Kendallville Ind
FABCO CLOSURE STRIPS Fabricated Prods Co Water St West Newton Pa
FABRICO General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ

FACTROTITE Mississippi Glass Co 88 Angelica St Louis 7 Mo
FAIRFAX Edwards Co Inc Post Rd Norwalk Conn
FAIRFIELD Autoyre Co Oakville Conn
FAIRFIELD BUILDER Fairfield Engineering Co 324 Barnhart Marion Ohio
FAIRFIELD FEATHER-LITE Fairfield Engineering Co 324 Barnhart Marion Ohio
FAIRFIELD HAINES Fairfield Engineering Co 324 Barnhart Marion Ohio
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FAIRFIELD SMOOTH-FLO Fairfield Engineering Co 324 Barnhart Marion Ohio
FALLS CITY True Temper Corp 1623 Euclid Cleveland 15 Ohio
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FEDERAL Federal Enterprises Inc 8700 S State Chicago 19 Ill
FEDERAL Federal Motor Truck Div Federal Fawick Corp 5780 Federal Av Detroit 9 Mich
FEDERAL NOARK Federal Electric Prods Co 50 Paris Newark 50 NJ
FENESTRA Detroit Steel Prods Co 2250 E Grand Blvd Detroit 11 Mich
FERRAFLOR Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
FERRAPLY Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
FERROKOTE Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
FERROLITH Sonneborn (L) Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY
FERROTONE Penetone Co 74 Hudson Av Tenafly NJ
FIBERLITE Insulite Div-Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
FIBRETONE Johns-Manville 22 E 40th New York 16 NY
50-50 PUSH OVER Allith-Prouty Inc 819 N Bowman Av Danville Ill
#52 CALCODA Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
#54 Howe Scale Co 2947 Scale Av Rutland Vt
FIGUREMASTER Marchant Calculators Inc 1475 Powell Oakland 8 Cal
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FILMCURE #58 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
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FIRZITE United States Plywood Corp 55 W 44th New York 36 NY
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5-STAR General Paint Corp 2621 Army San Francisco 19 Cal
FIVE STAR PLANS Better Homes & Gardens 1714 Locust Av Des Moines 3 Iowa
FIWALE Fiwale Equipment Mfg Co 105-07 Reade New York 13 NY
FIX-A-NIK Webb Prods Co 216 South G San Bernardino Cal
FIXMASTER Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 40 Ill
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FLAMINGO Riverton Lime & Stone Co Inc Riverton Va
FLASCO Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa
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FLEXIFONE Dukane Corp 200 N 11th St Charles Ill
FLEXIGUM Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
FLEXISEAL Landen Putty Wks Inc 45 Irving Malden 48 Mass
FLEXLOY Capewell Mfg Co 60-70 Governor Hartford 2 Conn
FLEXO Farley & Loetscher Mfg Co Dubuque Iowa
FLEX-O-CAP Crofoot Mfg Co 217 Evergreen Mount Prospect Ill
FLEX-O-GLASS Flex-O-Glass 1100 N Cicero Chicago 51 Ill
FLEXO-SEAL Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn
FLEXROLLER Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn
FLEXROTOR Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn
FLEXSCREEN Bennett-Ireland Inc 23 State Norwich NY
FLEX-SET Broderick & Bascom Rope Co 4203 Union Blvd St Louis 15 Mo
FLEXSTONE Johns-Manville 22 E 40th New York 16 NY
FLEX-TUNG Capewell Mfg Co 60-70 Governor Hartford 2 Conn
FLEXTURES Grand Rapids Store Equip Co 1340 Monroe Av NW Grand Rapids Mich
FLEXWOOD United States Plywood Corp 55 W 44th New York 36 NY
FLIGHT-VEYOR American Conveyor Co 1115 W Adams Chicago 7 Ill
FLOATING Stanley Works Garage Hardware Div New Britain Conn
FLO-BALL Clary Multiplier Corp 408 Junipero San Gabriel Cal
FLO-MASTER Acme Equipment Co 213 E Broadway Muskogee Okla
FLOOR LEVEL Delta Heating Corp 1 Cole Trenton 8 NJ
FLOORMASTER Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
FLO-WARM Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio
FLORBOSS FlorBoss-Habit Co 4181 W Montrose Av Chicago 41 Ill
FLOR-CEAL Builders Prods 105 W Adams Chicago 3 Ill
FLORENCE LUXURI-LINE Florence Stove Co School St Gardner Mass
FLORENCE-QUAKER Florence Stove Co School St Gardner Mass
FLOW-COLD Acme Industries Inc 600 N Mechanic Jackson Mich
FLOW-TEMP Acme Industries Inc 600 N Mechanic Jackson Mich
FLUSH WALL RADIO Flush Wall Radio Co 1012 Cleveland Clearwater Fla
FLUTEX Blue Ridge Glass Corp Libbey Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio
FLUX-STIK Lake Chemical Co 3052 W Carroll Av Chicago 12 Ill
FOAMGLAS Pittsburgh Corning Corp One Gateway Center Pittsburgh 22 Pa
FOLD-A-STAIR Craig-Wood Prods Co Brennan Rd Columbus Ga
FOLD-A-WEIGH Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY
FOLDTOP Curry Steel Prods Co 417 S Spring Independence Mo
FOLTOP & ROLLTOP Curry Steel Prods Co 417 S Spring Independence Mo
FOND DU LAC STONE Fond du Lac Stone Co Inc Hwy 41 So Box 148 Fond du Lac Wis
FOOTHOLD Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY
FOR-AIR Spray-O-Bond Co 2225 N Humboldt Av Milwaukee 12 Wis
FORCE-FLO Trane Co 3d & Cameron LaCrosse Wis
FOREST BOARD Forest Fiber Prods Co Box 68 Forest Grove Ore
FORGEWELD Service Caster & Truck Corp 540 N Brownwood Av Albion Mich
FORMFREE Mosaic Tile Co 1949 Pershing Av Zanesville Ohio
FORMULA J Johnson (J W) Co 3100 W Randolph Bellwood Ill
FORMULA 602 Penetone Co 74 Hudson Av Tenafly NJ
FORMULA 640 Haynes Prods Co 4007 Farnam Omaha 3 Neb
4500 LINE Sargent & Co 45 Water New Haven 9 Conn
FORTY-SIXTY Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
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FOUR A Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham Ala
400 A R B Window Sales Co 306 E State Fair Av Detroit 3 Mich
4-WAY SAFETY PLATE Inland Steel Co 38 S Dearborn Chicago 3 Ill
4-XD O M Scott & Sons Co Marysville Ohio
FRANKLIN LIQUID HIDE GLUE Franklin Glue Co 119 W Chestnut Columbus 4 Ohio
FRANTZ Frantz Mfg Co 301 W 3rd Sterling Ill
FREMONT Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
FREMONT FRESTEP Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
FREMONT SOFT-GLO Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
FREMONT SUPREME Fremont Rubber Co 350 McPherson Hwy Fremont Ohio
FRENCH LOCK Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
FRENCH PROVINCIAL Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
FRESH-AIR MAKER Schwitzer-Cummins Co 1125 Massachusetts Av Indianapolis Ind
FRICTEX Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
FRICTION-MATIC Boice-Crane Co 930 W Central Av Toledo 6 Ohio
FRIDEN Friden Calculating Machine Co Inc 2350 Washington San Leandro Cal
FRIDG-A-FIRE Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo
FROZEN HEAT Robeson Cutlery Co Inc 3646 Case Perry NY
FRYCHEX Astrup Co 2937 W 25th Cleveland 13 Ohio
FULITE Schacht Associates Inc 1175 E 156th New York 59 NY
FULLER BRIKARIER Builders Material Inc 601 Third SE Cedar Rapids Iowa
FULLER BRIKARIER Fuller Mfg Co 2 RR Newhall Iowa
FULTON Variety Mfg & Engineer Co 810 W Fulton Chicago 7 Ill
FURLATH Inland Steel Prods Co Box 393 Milwaukee 1 Wis
FURNAS-CRETE Mexico Refractories Co Love & Cole Mexico Mo
FYNAL-KOLOR Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
FYNAL-KOLOR Weatherbest Corp 986 Oliver North Tonawanda NY
FYNAL-KOTE Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
FYNAL-KOTE Weatherbest Corp 986 Oliver North Tonawanda NY
FYRGARD Richmond Fireproof Door Co Box 334 Richmond Ind

G

GE General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
G-E TEXTOLITE Roddis Plywood Corp 1155 Palmetto Marshfield Wis
GAIR-LOCK Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
GAL-VA-NITE Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill
GALVANUM Vita-Var Corp 10 Commerce Newark NJ
GARCY Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
GAR-SEE-LITE Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
GAS-A-FIRE Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo
GASAVER Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio
GASAVER DELUXE FLO-WARM Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio
GAS FLO-WARM Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio
GATE CITY Gate City Sash & Door Co 15 SW Third Av Fort Lauderdale Fla
GEE-VEE-LINE Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Pa
GEHL Eddy Stoker Corp 4713-19 W North Av Chicago Ill
GEM Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
GEM Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
GEM Mansfield Sanitary Pottery Inc Perrysville Ohio
GEM Marlow Pumps Box 566 Ridgewood NJ
GEM Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
GEMCO Moore (Goodloe E) Inc Box 846 Danville Ill
GENERAL General Floorcraft Inc 421 Hudson New York 14 NY
GENERAL General Hardware Mfg Co Inc 80 White New York 13 NY
GENERAL AUTOMATIC General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md
GENERAL ELECTRIC General Electric Co Air Conditioning Div 5 Lawrence Bloomfield NJ
GENERAL ELECTRIC General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
GENERAL GIBRALTAR General Plywood Corp 3131 W Market Louisville Ky

GENERAL QUICK AID General Detroit Corp 2272 E Jefferson Detroit 7 Mich
GENSCO TOOLS 1830 N Kostner Av Chicago 39 Ill
GENUINE STILLSON Walworth Co 60 E 42nd New York 17 NY
GENUWOOD Parkwood Corp 24 Water Wakefield Mass
GERMANTOWN Griffith Tool Wks Second & Duncannon Av Philadelphia 20 Pa
GETTY Getty (H S) & Co Inc 3348 N 10th Philadelphia 40 Pa
GIANT ROLLER Woodenware Prods Corp 122 N 7th St Louis 1 Mo
GIBRALTAR Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
GIBSON Gibson Refrigerator Co 515-615 W Williams Greenville Mich
GILBARCO Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass
GILLEN Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich
GILSALUME United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
GILSON Gilson Bros Co Box 315 Fredonia Wis
GLAMOUR Farley & Loetscher Mfg Co Dubuque Iowa
GLASIRON Wolverine Porcelain Enameling Co 3350 Scotten Av Detroit 10 Mich
GLASOLIER Glasolier Co 307-09 Sixth Braddock Pa
GLASS MAT Angier Corp Fountain St Framingham Mass
GLASS-O-NET Flexo-O-Glass 1100 N Cicero Chicago 51 Ill
GLAS SURFACED Kirlin Co 3435 E Jefferson Av Detroit 7 Mich
GLATEX United States Gypsum Co 300 W Adams Chicago 6 Ill
GLAZECOAT Johns-Manville 22 E 40th New York 16 NY
GLAZOL United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
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GLENWOOD Glenwood Range Co 300 W Water Taunton Mass
GLIDE Glide Windows Inc 7463 Varna Av North Hollywood Cal
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GLIDE-AWAY Farley & Loetscher Mfg Co Dubuque Iowa
GLOBEROID Globe Paint Wks Inc Market Williamsport Pa
GLOMASTER Pryne & Co Inc 140 N Towne Pomona Cal
GLONAMEL Globe Paint Works Inc 202 Market Williamsport Pa
GLOSTONE Martin-Senour Co 2520 S Quarry Chicago 8 Ill
GLOWOOD De Jong Inc 34-23 36th Long Island City 1 NY
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GLUINE Consumers Glue Co 1515 Hadley St Louis 6 Mo
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GOLD SEAL Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn
GOLD STRIPE Pittsburgh Plate Glass Co 632 Ft Duquesne Blvd Pittsburgh 22 Pa
GOLD TIP Fletcher-Terry Co 437 South Forestville Conn
GOLDEN KEY HOMES Prefabricators Inc Annapolis Junction Howard County Md
GON Tilette Cement Co Inc 401 Lafayette New York 3 NY
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GOSSETT Kees (F D) Mfg Co 700 Park Av Beatrice Neb
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GRABLER Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio
GRACELINE Speakman Co 30th & Spruce Wilmington 99 Del
GRAF-KITTANNING Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
GRAINGLO Puget Sound Plywood Inc 230 E "F" St Tacoma Wash
GRAIN-TITE Chicago Paints Inc 4500 W 14th Chicago 23 Ill
GRAND Sunray Stove Co Grand Division 2323 E 67th Cleveland 4 Ohio
GRAND PRIZE United States Gypsum Co 300 W Adams Chicago 6 Ill
GRAND RAPIDS Grand Rapids Hdwe Co 560 Eleventh NW Grand Rapids 2 Mich
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GRAVITY Standard Conveyor Co 315 NW Second North St Paul 9 Minn
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GRAYS HARBOR Mackie Mill Co Westport Route Aberdeen Wash
GRAYSTONE Graystone Concrete Prods Co 134 Nickerson Seattle 9 Wash
GREEN RIVER Russell Harrington Cutlery Co 44 River Southbridge Mass
GREEN-STRIPE Clover Mfg Co 333 Main Norwalk Conn
GREENLEE Greenlee Bros & Co 2136 Twelfth Rockford Ill
GREENLEE Greenlee Tool Co 2136 Twelfth Rockford Ill
GREEN TWEED Slaymaker Lock Co 115 S West End Av Lancaster Pa
GREGGCO Gregg Prods Co 646 Chestnut SW Grand Rapids 2 Mich
GRID Murray (D J) Mfg Co 1024 Third Wausau Wis
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GRILLADIER Bennett-Ireland Inc 23 State Norwich NY
GRILLCRAFT Grillcraft Co 1067 St Clair Av St Paul 5 Minn
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GRIP-SNIP Sargent & Co 45 Water New Haven 9 Conn
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GROUTEX Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa
GUARD Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
GULFSPRAY Binswanger & Co 207 N Main Houston 1 Tex
GULFSPRAY Gulf Oil Corp Grant & Seventh Pittsburgh Pa
GULF STREAM Aldrich Co Wyoming Ill
GULF TRAK Gulf Oil Corp Grant & Seventh Pittsburgh Pa
GUM-A-TUB Protectub Inc 71 Ludlow New York 2 NY
GUTH FAN Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo
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GYP-C-HORSE Gypsum Celing Jack Co 113 22nd NE Cedar Rapids Iowa
GYP-C-JACK Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa
GYP-C-PROP Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa
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HAKO PRODUCTS Hachmeister Inc Box 357 Pittsburgh 30 Pa
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HALL-MACK Hall-Mack Co 1344 W Washington Blvd Los Angeles 7 Cal
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HANDY Handy Mfg Co 2432 Lawrence Av Chicago 25 Ill
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HARDPLY United States Plywood Corp 55 W 44th New York 36 NY
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HAYES Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
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HEATWAY Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
HEAVY TAB Old American Roofing Mills 7600 Truman Rd Kansas City Mo
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HELLER International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
HELMET HEAD Boice-Crane Co 930 W Central Av Toledo 6 Ohio
HELYX Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio
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HERCULES Bache (Semon) & Co 636 Greenwich New York 14 NY
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HERCULES Sargent & Co 45 Water New Haven 9 Conn
HERCULES True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
HERCULITE Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
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HERCULOCK Independent Lock Co 1950 Cleghorn Fitchburg Mass
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HI-POWER Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
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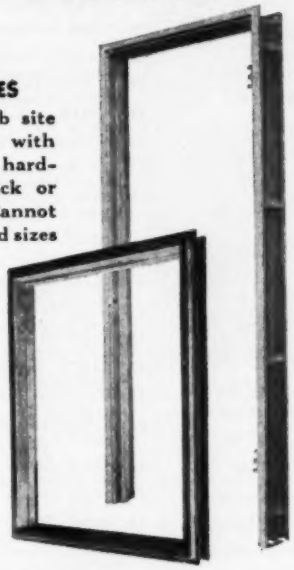

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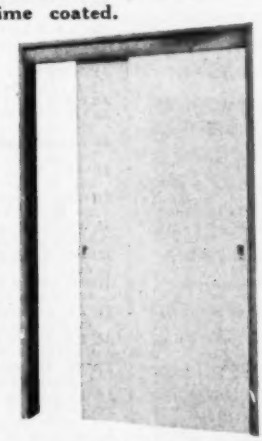

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IDEAL Universal Hoist & Mfg Co Cedar Falls Iowa
IDEAL ALL-WETHR Ideal Co 24th & Mary Waco Tex
IDEAL FRAME-N-ALL Ideal Co 24th & Mary Waco Tex
IDEAL HYDROPLASTIC Ideal Cement Co Colorado Div 500 Denver National Bldg Denver Colo
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ILCO Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind
ILLINOIS Illinois Lock Co 822 S Ada Chicago 7 Ill
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IMPERIAL Wilson-Imperial Co 115 Chestnut Newark 5 NJ
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IMPERVITEX Chase Bag Co 309 W Jackson Blvd Chicago Ill
IMPERVO ENAMEL Benjamin Moore & Co 511 Canal New York 13 NY
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INCINOR Incinerator Div Bowser Inc 4209 Sycamore Cairo Ill
INCLINE TRACK King Mfg Corp 3158 W Chicago Av Chicago 22 Ill
INDEPENDENT Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
INDUSPRAY Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich
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INLAND HI-BOND Inland Steel Co 38 S Dearborn Chicago 3 Ill
INLAND HOMES Inland Homes Corp 501 S College Piqua Ohio
INLAND TI-CO Inland Steel Co 38 S Dearborn Chicago 3 Ill
INLAND TI-NAMEL Inland Steel Co 38 S Dearborn Chicago 3 Ill
INNER-SEAL Bridgeport Fabrics Inc 195 Holland Av Bridgeport 1 Conn
INSECTOCUTOR Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY
INSELBRIC Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
INSELSTONE Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
INSELSYDE Insel-Plastics Inc 2120 W 138th Blue Island Ill
INSELSYDE Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
INSELUM Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind
INSELWOOD Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa
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INSL-COTTON Taylor Bedding Mfg Co Taylor Tex
INSULAG Quigley Co Inc 527 Fifth Av New York 17 NY
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INSULGLO Troyer Driveway Service 2157 S Park Av Buffalo 20 NY
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JACK FROST Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
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JACKMANCO Jackson Mfg Co Lochiel Rd Harrisburg Pa
JACK-MASTER Imperial Knife Associated Companies Inc 1776 Broadway New York 19 NY
JACKSON Gerber Plumbing Fixtures 232 N Clark Chicago Ill
JACKSON Jackson Mfg Co Lochiel Rd Harrisburg Pa
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JAY BEE Mexico Refractories Co Love & Cole Mexico Mo
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JETCRETE Construction Machinery Cos Vinton Waterloo Iowa
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JEWEL Reliable Metal Novelty Co Inc 25 Elm Av Mount Vernon NY
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JIFFY Carlson (A B) & Co 349 Woodlawn Av Aurora 4 Ill
JIFFY Miner-Hillard Milling Co 826 Second Natl Bank Wilkes Barre Pa
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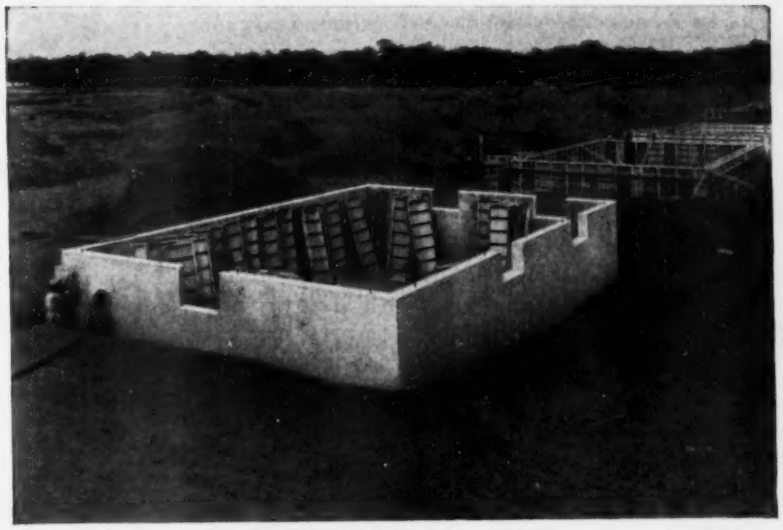
SYMONS FORMS SPEED WORK IN HOME PROGRAM TO EASE CRISIS IN WAUKEGAN, ILLINOIS

Home Builder Plans To Build 10 Houses A Day During Good Weather

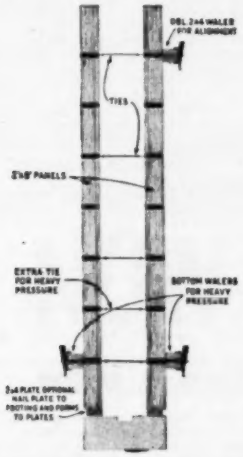
The first units, in a $14,000,000 building program, through which 1,346 homes will be built are well underway. Each home will have a FULL BASEMENT.

Symons Forms are being used for the foundations because they can be erected and stripped faster, are safer, require a minimum amount of walling and bracing, and produce better looking walls.

Each crew will use two sets of forms. They strip and erect one set of forms per day. This foundation will be poured the following day, while the other set of forms is stripped and then erected. After stripping, the exposed ties are broken back, exterior walls asphalt covered below grade and back fill is placed around walls.



First of foundations put in by Centex Construction Company of Dallas, Texas, General Contractors for the Waukegan Home Project. Note Symons Forms and the minimum walling and bracing required.



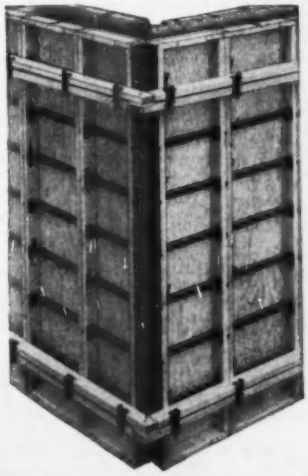
Section showing inside and outside forms ready to pour.

The basement slab is poured before the house walls are erected. This allows cleaner and more efficient handling of materials during the construction of the house.

Special 7′ forms were built for this project. Standard sizes are 6′ and 8′. Concrete is poured to the full height of the forms. Considerable time is saved and a better looking and more level wall is achieved.

Symons Engineering and Customer Service are also playing an important role in this project. Our Engineering Staff furnished complete form layouts and job cost sheets on the form work—at no charge to the contractor. This service enabled the contractor to get a clear picture of his job (its cost, bill of materials and labor saving methods). Our fieldman gives regular on-the-job service. First, by on-the-job recommendations of forms and hardware needed. Second, by showing the workmen how to set-up the forms efficiently. Third, by making special deliveries when last minute problems arise.

Symons Forming System includes—TWO WAY FORM TIE which holds forms securely to the required wall thickness without washers, spreaders or walers. TIGHTENING WEDGE is inserted through the slot in the connecting bolt and pulls form sides tightly together. CONNECTING BOLT which is slotted passes through edges of adjacent forms and tie loop.



Inside panels join projecting ties. Forms are aligned and braced with walers.

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LUMINALL National Chemical & Mfg Co 3617 S May Chicago 9 Ill
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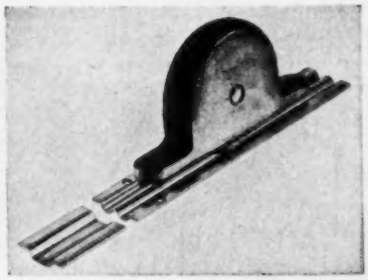
MAG-O-CRETE Camp Co Inc 6958 S State Chicago 21 Ill
MAID OF ATHENS Athens Stove Wks Inc Hicks St Athens Tenn
MAILO-BOX Penn-Greg Mfg Co 562 7th Av N Minneapolis 11 Minn
MAJESTIC Heller Bros Co Heller Dr Newcomerstown Ohio
MAKE YOUR OWN Larson (Chas O) Co Av G & C&NW Ry Sterling Ill
MAKOMB Macomb Steel Products Co Macomb Ill
MALARKEY M & M Wood Working Co 2301 N Columbia Blvd Portland 17 Ore
MAL-LEAD BOLT ANCHOR Arro Expansion Bolt Co N Boone Av Marion Ohio
MALT-A-GLIDE Malta Mfg Co 35 Elliott Malta Ohio
MALT-A-MASTER Malta Mfg Co 35 Elliott Malta Ohio
MALT-A-MATIC Malta Mfg Co 35 Elliott Malta Ohio
MALTESE CROSS BRAND Seattle Cedar Lumber Mfg Co 4703 Ballard Av Seattle 7 Wash
MAN O WAR ULTRA SPAR McCloskey Varnish Co 7600 State Rd Philadelphia 36 Pa
MANHATTAN Manhattan Terrazzo Brass Strip Co Inc Box 187 Norwalk Conn
MANHATTAN Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ
MANSOTA STONE Babcock Co Kasota Minn
MARB-L-COTE National Chemical & Mfg Co 3617 S May Chicago 9 Ill
MARBLETRED Thomas Moulding Floor Mfg Co 325 W Huron Chicago 10 Ill
MARCO FOLDING STAIRWAYS Marschke Co (Marco Stairways) 1695 N Cleveland Av St Paul 8 Minn
MARFORGE Market Forge Co 35 Garvey Everett 49 Mass
MAR-GON United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa
MARIGOLD Heilig Bros Co Inc 24 W North York Pa
MARINE CATERPILLARS Caterpillar Tractor Co 600 W Washington East Peoria Ill
MARION MIXERS Rapids Machinery Co 889 11th Marion Iowa
MARKER Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
MARMON-HERRINGTON Marmon-Herrington Co Inc 1511 W Washington Indianapolis Ind
MARQUETTE Marquette Cement Mfg Co 20 N Wacker Dr Chicago 6 Ill
MARSHALLTOWN Marshalltown Trowel Co 112 S Eighth Av Marshalltown Iowa
MARVAN TAPE Marvan Corp Box 219 West Hartford Conn
MARVEL Marvel Equipment Co 1055 Bowen Oshkosh Wis
MARVEL Marvel Metal Prods Co 3843 W 43rd Chicago 32 Ill
MARVEL Woodenware Prods Corp 122 N 7th St Louis 1 Mo
MARVEL-LIFT Crawford Door Co 20263 Hoover Rd Detroit 5 Mich
MARVELWITE Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
MASON American Mason Safety Tread Co 125 Perry Lowell Mass
MASONITE Masonite Corp 111 W Washington Chicago 2 Ill
MASON-SEAL Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
MASTER Master Addresser Co 6500 W Lake Minneapolis 16 Minn
MASTER Master Metal Prods Inc 291 Chicago Buffalo 4 NY
MASTER Wendell Mfg Co 4234 N Lincoln Av Chicago 18 Ill
MASTER Woodenware Prods Corp 122 N 7th St Louis 1 Mo
MASTER BUILDER Griffith Tool Wks Second & Duncannon Av Philadelphia 20 Pa
MASTER-CAULK Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa
MASTER CLEANER & POLISH S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
MASTER-FLUSH DOOR Hardwood Prods Corp 164 Lake Neenah Wis
MASTER GLAZIERS Biddle Co 608-24 S Main St Louis 2 Mo
MASTERKURE Master Builders Co 7016 Euclid Av Cleveland 3 Ohio
MASTER MASTIC S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
MASTER NO-DRAFT Master Metal Strip Service Inc 1720 N Kilbourn Av Chicago 39 Ill
MASTERPIECE Hooker Glass & Paint Mfg Co 659 Washington Chicago 6 Ill
MASTER RULE Master Rule Mfg Co Inc 40 Mulberry Middletown NY
MASTER WOODWORKER Master Woodworker Mfg Co Inc 401-11 E Fort Detroit 26 Mich
MASTERS Masters Planter Co 350 North Benton Harbor Mich
MASTICBOARD Camp Co Inc 6958 S State Chicago 21 Ill
MASUR-COLOR Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
MASUR-OIL Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
MATERIAL DEALERS Material Dealers Newspaper Mat Service Box 428 Enid Okla
MATICO Mastic Tile Corp of America N Montgomery Newburgh NY
MATICO ARISTOFLEX Mastic Tile Corp of America N Montgomery Newburgh NY
MATICO CONFETTI Mastic Tile Corp of America N Montgomery Newburgh NY
MATICO DELUXE Mastic Tile Corp of America N Montgomery Newburgh NY
MATICO PARQUETRY Mastic Tile Corp of America N Montgomery Newburgh NY
MATICO SUPER DELUXE Mastic Tile Corp of America N Montgomery Newburgh NY
MAXAW Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 40 Ill
MAXDRIL Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 40 Ill
MAYES Mayes Bros Tool Mfg Co Port Austin Mich
MAYESMASTER Mayes Bros Tool Mfg Co Port Austin Mich
MAYFAIR Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Pittsburgh Pa
MAYHEW Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass
MAYTAG Maytag Co Newton Iowa
MAZE Maze (W H) Co Church & The River Peru Ill
MAZEMADE Maze (W H) Co Church & The River Peru Ill
MC CARTER McCarter Shingle Co Ltd 2418 Rock Bay Av Vancouver B C Canada
MC CORMICK International Harvester Co 180 N Michigan Av Chicago 1 Ill
MC DONOUGH McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis
MC MAHAN McMahan Bros 2220 S Hoover Los Angeles 7 Cal
MECH-A-NAMEL O'Brien Corp 101 N Johnson South Bend 21 Ind
MECCO Curtis Mfg & Asbestos Co 29 & 30 Lewis Wharf Boston 10 Mass
MECO Marvel Equipment Co 1055 Bowen Oshkosh Wis
MELNOR Melnor Metal Prods Co Inc 10-40 45th Av Long Island City 1 NY
MELTOMATIC Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich
MENGEL Exiner (Alexander) Co Merchandise Mart Chicago 54 Ill
MENZIT Webb Prods Co 216 South G San Bernandino Cal
MEPHISTO Mephisto Tool Co Inc Box 16 Hudson NY
MERCON American Rubber Prods Corp 151 E 50th New York 22 NY ....
MERCURY Vulcan Electric Co 88 Holton Danvers Mass
MERCURYS Weatherbest Corp 986 Oliver North Tonawanda NY
MERIT Merit Oak Flooring Co 4530 Georgia Rd Birmingham Ala
MERMAID Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa

GRANT

Send for complete Sliding Door Framing Data booklet. It's free! It's useful! Write to 31-63 Whitestone Parkway, Flushing, New York.

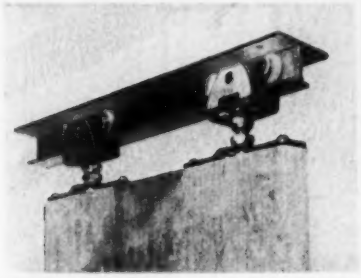
pulley & hardware corporation

31-63 Whitestone Parkway, Flushing, New York



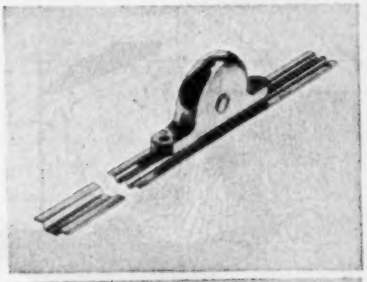
14 Sheaves and Tracks

Used where overhead support not practical.
For heavy doors (up to 200 lbs.) Oilite bronze bushings track flush with floor.
Wheel tread metal or rubber. Dimensions:
Face: 13/16" x 6"
Face thickness: 5/16"
Height: 2⅞"
Wheel Diameter: 2⅜"
Track width: 1⅜"



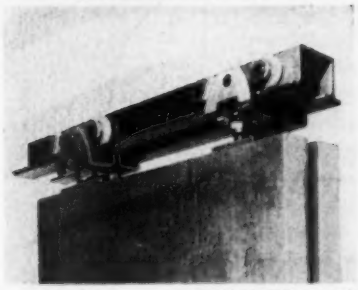
Grant 71 Series

Type: single sliding and bi-parting doors.
Pocket: closed or open
Headroom: lowest of any quality sliding door hardware—only 1¾".
Door thickness: to 1¾".
Load: 100 lbs. per door, Completely **packaged** in 4, 5, 6 and 8 ft. units.
See No. 72 below for list of features.



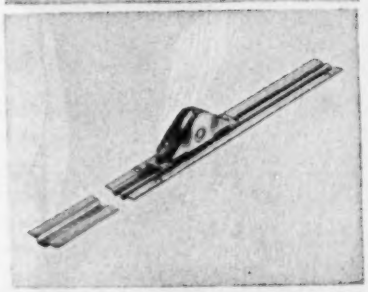
18 Sheaves and Tracks

For medium weight doors (up to 125 lbs.) Differs from No. 14 (above) only in dimensions:
Face: 11/16" x 4⅜"
Face Thickness: 5/16"
Height: 1 15/16"
Wheel diameter: 1⅞"
Track width: 1"



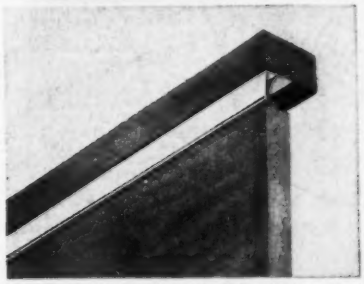
Grant 72 Series

Same as No. 71 (above) except for
Type: for by-passing multiple doors.
Models 71 and 72 have **noiseless** solid nylon ball bearing rollers.
Headroom: non-adjustable, 1 11/16"; adjustable, 2⅜" average.



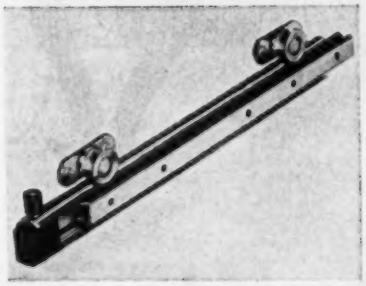
20 Sheaves and Tracks

For light cabinet doors, (up to 50 lbs.) Oilite bronze bushings, track flush with floor.
Wheel tread: metal or rubber. Dimensions:
Face: 15/32" x 2 15/16"
Face thickness: 1/16"
Height: ⅞"
Wheel diameter: 1"
Track width: ⅞"



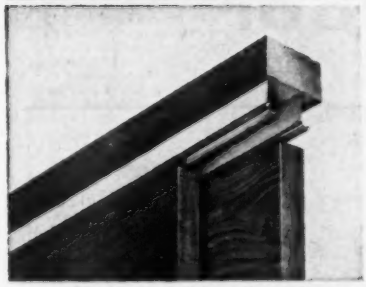
Rocket 1020 Hanger

Type: single sliding or bi-parting doors.
Pocket: Closed or open.
Minimum Headroom: 1⅛"
Door thickness: to 1⅜"
Load: 50 lbs. per door.
Completely packaged in 4, 5, 6 and 8 ft. units.
The Rocket is the leader in the **low-cost** field.
See below for features.



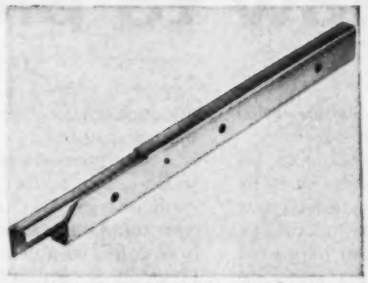
306 Drawer Slide

Ball bearing drawer slide **for side mounting**
Load: up to 50 lbs.
Space needed: ¾" each side of drawer.
Travel: full length, Can't slip or upset.
Material: steel.
Finish: Zinc plated
Sizes: 12" to 30", every inch.
32" to 40", even sizes.



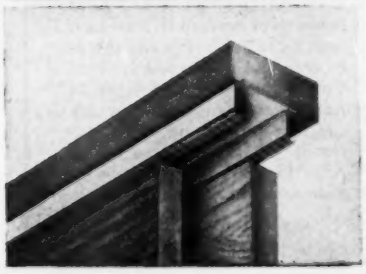
Rocket 1030 Hanger

Same as 1020 (above) except for
Style: for by-passing multiple doors.
Door thickness: to ¾"
All Rocket models may be had with choice of carriers: non-adjustable top mount, adjustable top mount or adjustable side mount.



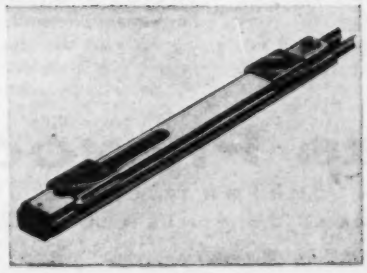
330 Drawer Slide

Inexpensive EconoSlide **for side mounting.**
Load: up to 50 lbs.
Space needed: 21/32" each side of drawer.
Material: Steel
Finish: Zinc plated
Sizes: 14" to 28", even sizes only.
Roller action, simple installation.



Rocket 1040 Hanger

Same as 1030 (above) except for
Door thickness: to 1⅜"
Solid self-lubricating Nylon rollers on all three models. Track serves as architectural trim. No facia plate needed. Simple to install.



308 Drawer Slide

Ball bearing drawer slide for **underneath** mounting.
Load: up to 40 lbs.
Travel: Full length
Material: Steel
Finish: Zinc plated
Sizes: 12" to 38", even sizes only.

How to pick a door

Every door leads somewhere — so watch out how you pick 'em.

It's a smart builder who picks his *source* of flush panel doors. Once he lets his building supplies dealer know he wants Atlas Plywood doors he knows what to expect. For he knows that Atlas Plywood has a complete and comprehensive stock in every wood, every grade, every state of finish a builder could want. And when the door itself comes — that's it. Just what you ordered.

Atlas Plywood controls all its own sources, does all its own manufacture, maintains its own inspections to its own standards every step of the way from forest to finished product. Atlas Plywood is among the oldest and largest suppliers of plywood and its products in the world. It's a supply source you'll always appreciate.

ALL THE WOODS
ALL THE GRADES
ALL THE SERVICE

Whatever you specify in "Atlas Plywood or equivalent" in doors, dealers can get exactly and speedily from Atlas Plywood Jobbers. You get all the advantages of flush doors for modernity, beauty and ease of cleaning and maintenance PLUS the advantage of Atlas Plywood's quality control from forest to finished product.

Atlas Plywood

CORPORATION

FROM FOREST TO FINISHED PRODUCT

Boston 16, Mass. Distributors in all principal cities

MERWIN Merwin Mfg Co 19th & German Erie Pa
MET-CRO Met-Cro Specialties Co Inc 56 Boerum Brooklyn 6 NY
META-KOTE Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio
METALANE Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo
METALCRAFT Metalcraft Screen Co 1171 Tremont Boston 20 Mass
METAL CRAFTERS Metal Crafters 18th & E Av NE Cedar Rapids Iowa
METAL-FOLD SAFETY STAIR Huntington Industries Inc 2368 Prospect Memphis Tenn
METALLIC Lufkin Rule Co 1730 Hess Saginaw Mich
METALOK Johns-Manville 22 E 40th New York 16 NY
METAL MASTER Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ
METEOR Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY
METL-LOCK Midwest Acoustical & Supply Co 20601 W Lake Rd Cleveland 16 Ohio
METLWAL Martin-Parry Corp 1455 W Alexis Rd Toledo Ohio
METRIM BACK BAND Chicago Metallic Sash Co 2112 Ogden Av Chicago 12 Ill
METRODECK Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
METRO Dunham (C A) Co 400 W Madison Chicago 6 Ill
METRO-MIX Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
METROPOLITAN Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
MEZURALL Lufkin Rule Co 1730 Hess Saginaw Mich
MICAFIL Siscoe Vermiculite Mines Ltd 907 Dominion Square Bldg Montreal Que Canada
MICARTA United States Plywood Corp 55 W 44th New York 36 NY
MICARTA Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa
MICARTABORD United States Plywood Corp 55 W 44th New York 36 NY
MICROLOY Capewell Mfg Co 60-70 Governor Hartford 2 Conn
MICROMET Calgon Inc 323 Fourth Av Pittsburgh Pa
MICROTOMIC Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY
MIDGET Midget Heater & Specialty Co 2801 Pacific Av Tacoma Wash
MIDGET Utica Radiator Corp 2201 Dwyer Av Utica NY
MIDGET LOUVER Midget Louver Co 6-8 Wall Norwalk Conn
MIDGET ROLLER Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich
MIDGET SLAT CLOSURE Wilson (J G) Corp 370 Lexington Av New York 17 NY
MIGHTY MIDGET PULLERS Coffing Hoist Co 800 Walters Danville Ill
MIKE Cleveland Mills Co Lawndale NC
MILCOR Inland Steel Prods Co Box 393 Milwaukee 1 Wis
MILFORD International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo
MILLER Miller Co 200 Center Meriden Conn
MILLER Miller Bros Co Box 540 Johnson City Tenn
MILLER Miller (Frank B) Mfg Co 3216 Valhalla Dr Burbank Cal
MILLIKEN Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
MILWAUKEE Milwaukee Electric Tool Corp 5356 W State Milwaukee 8 Wis
MILWAUKEE Milwaukee Hay Tool Co 2773 S 29th Milwaukee 46 Wis
MINALITH American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill
MINNCOTE Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
MINNFLO Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
MINNSPAR Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
MINUT-BARB Dare Prods Inc Box 157 Battle Creek Mich
MINUTE MAN Slaymaker Lock Co 115 S West End Av Lancaster Pa
MIRACLE G & W H Corson Inc Plymouth Meeting Pa
MIRACLE Marquart Millwork Co 50 Ceape Oshkosh Wis
MIRACLE ANCHOR Miracle Adhesives Corp 214 E 53rd New York 22 NY
MIRACLE BLACK MAGIC Miracle Adhesives Corp 214 E 53rd New York 22 NY
MIRACLE BRITE MAGIC Miracle Adhesives Corp 214 E 53rd New York 22 NY
MIRACLE R-MIR-DEK Miracle Adhesives Corp 214 E 53rd New York 22 NY
MIRAPLAS S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
MIRATILE Universal Major Electric Appliance Co Box 119 Lima Ohio
MIRATRIM S & W Moulding Co 990 Parsons Av Columbus 6 Ohio
MIRAWAL Universal Major Electric Appliance Co Box 119 Lima Ohio
MIRRICO-BOND Camp Co Inc 6958 S State Chicago 21 Ill
MITCO Hendrick Mfg Co Dundaff St Carbondale Pa
MITCO Mitchell Moulding Co 1501 Circle Av Forest Park Ill
MITI-MITE Harnischfeger Corp 4400 W National Av Milwaukee 46 Wis
MIXERMOBILE Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
MOBILWALLS Virginia Metal Prods Inc Orange Va
MODEL 450 REMINGTON STUD DRIVER Remington Arms Co Inc 939 Barnum Av Bridgeport 2 Conn
MODERN Modern Iron Wks 540 S Fifth Quincy Ill
MODERN Modern Welding Co Inc 1500 E 12th Owensboro Ky
MODERN HOMES Modern Homes Corp 7312 Greenfield Dearborn Mich
MODERNFOLD New Castle Prods Inc New Castle Ind
MODU-AIRE United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn
MODULART Weber Showcase & Fixtures Co Inc 5700 Avalon Blvd Los Angeles 54 Cal
MOHAWK Cheney (Henry) Hammer Corp 73 W Mill Little Falls NY
MOHAWK Mohawk Flush Doors Inc 3383 Hammond Av Elkhart Ind
MOLCOR Bemis Mfg Co Broadway Sheboygan Falls Wis
MOLDOCHIL Capewell Mfg Co 60-70 Governor Hartford 2 Conn
MOLINE Moline Iron Wks Moline Ill
MOLLY Molly Corp 504 Medical Arts Bldg Reading Pa
MONARCH Martin-Senour Co 2520 S Quarry Chicago 8 Ill
MONARCH Monarch Malleable Iron Range Co Beaver Dam Wis
MONARCH Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
MONARCH-IN-A-SLIDE New Monarch Machine & Stamping Co 406 SW 9th Des Moines 9 Iowa
MONARCK CUTTER Texas Foundries Inc Box 180 Lufkin Tex
MONITE Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn
MONITOR Baker Mfg Co 133 Enterprise Evansville Wis
MONO-CHROME Mexico Refractories Co Love & Cole Mexico Mo
MONO-FIBRIK Mexico Refractories Co Love & Cole Mexico Mo
MONOTOP General Electric Co Chemical Div 1 Plastics Av Pittsfield Mass
MOORE-FIN Moore Dry Kiln Co 1220 W State Jacksonville Fla
MOREKILN Moore Dry Kiln Co 1220 W State Jacksonville Fla
MAPACO VAR Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
MOROCCAN LEATHERBORD Wallace Mfg Co 10th & Fayette North Kansas City Mo
MOR-SUN Morrison Steel Prods 601 Amherst Buffalo 7 NY
MORTASEAL United States Gypsum Co 300 W Adams Chicago 6 Ill
MORTEX #5 Mortell (J W) Co 550 N Hobbie Av Kankakee Ill
MORTITE Mortell (J W) Co 550 N Hobbie Av Kankakee Ill
MOTO-BUG Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
MOTO-BUG Kwik Mix Co Port Washington Wis
MOTO-CRANE Thew Shovel Co 1374 E 28th Lorain Ohio
MOTO-MIXER Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
MOTO-TRIMMER Bosworth Mfg Co Mills Rd Avon Ohio
MOTORSTOKOR Hershey Machine & Foundry Co 1940 Miller Manheim Pa
MOTOTURB Uno Ventilator Co 1236 Eastern Av Malden 48 Mass
MOTOWLIFT Service Caster & Truck Corp 540 N Brownwood Av Albion Mich
MOULFLEX Moultile Inc N Montgomery Newburgh NY
MOULSTONE Thomas Moulding Floor Mfg Co 325 W Huron Chicago 10 Ill
MOULTILE Moultile Inc N Montgomery Newburgh NY
MOUNT VERNON Gerber Plumbing Fixtures 232 N Clark Chicago Ill
MOYNO Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
MUD-JACK Koehring Co 3026 W Concordia Av Milwaukee 16 Wis
MUELLER CLIMATROL Mueller Climatrol Corp 2005 W Oklahoma Av Milwaukee 15 Wis
MULLER MIXER Muller Machinery Co Inc Box 248 Metuchen 4 NJ
MULSOMASTIC Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
MULTICO BLOCKMASTER Multiplex Machinery Co Div Multipack Inc 1430 Fremont Elmore Ohio
MULTI-CUT Western Saw Mfrs Inc 1842 W Washington Blvd Los Angeles Cal
MULTI-DIAMETER U S Expansion Bolt Co State St & PRR York Pa
MULTI-FIN Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
MULTIGRAPH Addressograph - Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio
MULTILITH Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio
MULTI-MAST Utility Service Co Inc 921 13th Racine Wis
MULTI-PURPOSE Flint & Walling Mfg Co Inc 90 Oak Kendallville Ind
MULTI-SHINGLES Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
MULTI-SPRING Master Lock Co 2600 N 32nd Milwaukee 45 Wis
MULTI-TUBE Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
MULTI-VENT Pyle National Co 1334 N Kostner Av Chicago 51 Ill
MULTITINT Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
MURA-TEX Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
MURATILE Mosaic Tile Co 1949 Pershing Av Zanesville Ohio
MURCO Murray (D J) Mfg Co 1024 Third Wausau Wis
MURDOCK Murdock Mfg & Supply Co 426 Plum Cincinnati 2 Ohio
MUR-MADE Murdock Mfg & Supply Co 426 Plum Cincinnati 2 Ohio
MURRAY Murray Corp of America 7700 Russell Av Detroit Mich
MUVIT Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass
MYERS Myers (F E) & Bro Co 424-34 Orange Ashland Ohio
MYSTONE Penetone Co 74 Hudson Av Tenafly NJ
MYTI-DRI Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va

N

N S W N S W Co 12930 Auburn Av Detroit 23 Mich
NABORS Nabors (W C) Co Mansfield La
NALCO National Lead Co 111 Broadway New York 6 NY
NALTEX Nalle Plastics Inc 108-12 W 2nd Austin 1 Tex
NALTILE Nalle Plastics Inc 108-12 W 2nd Austin 1 Tex
NAM-A-LAC Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
NANCY WARREN United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill
NARROWALL Holly Mfg Co 875 S Arroyo Pkwy Sta D Pasadena 2 Cal
NASHOTAH-PAKT Nashotah Moulding & Mfg Co Nashotah Wis
NAT BLAK National Rock Wool Sales Inc Lagro Ind
NATIONAL Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
NATIONAL Metal Trims Inc Box 1072 Youngstown 1 Ohio
NATIONAL National Radiator Co 223 Central Av Johnstown Pa
NATIONAL National Screen Co Madison Av Extended Suffolk Va
NATIONAL LIFETIME TILE National Tile & Mfg Co E 26th Anderson Ind
NAT ROC National Rock Wool Sales Inc Lagro Ind
NAVAJO Chicago Paints Inc 4500 W 14th Chicago 23 Ill
NAVAL Sloan Valve Co 4300 W Lake Chicago 24 Ill
NAVEE 742 Penetone Co 74 Hudson Av Tenafly NJ
NEOCETA Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
NEOSOTE Protexol Corp 162 Market Kenilworth NJ
NEPTUNE Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
NEPTUNE Washington Stove Wks Box 919 Everett Wash
NERVA KOTE Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
NERVA-PLAST Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
NERVASTRAL J F Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
NERVASTRAL SEAL-PRUF Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY
NEUTONE Martin-Senour Co 2520 S Quarry Chicago 8 Ill
NEVA-BREAK Plumbers Woodwork Co Algoma Wis
NEVER-STAIN Nichols Wire & Aluminum Co 1725 Rockingham Rd Davenport Iowa
NEW BEDFORD New Bedford Cordage Co 131 Court New Bedford Mass
NEW ERA Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich
NEW OLYMPIC SIERRA HAND-HEWN SHAKES Olympic Stained Prods Co 1118 Leary Way Seattle Wash
NIAGARA Niagara Furnace Div Forest City Foundries Co 2500 W 27th Cleveland 13 Ohio
NICHOLS Nichols Metal Strip Service 2108 Gilbert Av Cincinnati 6 Ohio
NICKELETTE Tilette Cement Co Inc 401 Lafayette New York 3 NY
NI-CLAD Lufkin Rule Co 1730 Hess Saginaw Mich
NIGHTROL Paragon Electric Co 1606 12th Two Rivers Wis
NINE LIFE Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio
NINETY Glen-Gery Shale Brick Corp Box 182 Wyomissing Pa
NITE-GLO Active Display Adv 1702 W 19th Chicago 8 Ill

NO DRIP Mortell (J W) Co 550 N Hobbie Av Kankakee Ill
NO-FLAME Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
NOISEMASTER Simpson Logging Co White Bldg Seattle 1 Wash
NOMEC Lock-Joint Window Co 817 NW 61st Oklahoma City 14 Okla
NON CON DUX Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill
NORGE HEAT Norge Heat Div Borg-Warner Corp 346 E South Kalamazoo Mich
NORK General Hdwe Mfg Co Inc 80 White New York 13 NY
NORMAN HI-LO-BOY Norman Prods Co 1150 Chesapeake Av Columbus 12 Ohio
NORMAN INN-A-WAL Norman Prods Co 1150 Chesapeake Av Columbus 12 Ohio
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NORMAN THREE SIXTY Norman Prods Co 1150 Chesapeake Av Columbus 12 Ohio
NORMAN TWINFUEL Norman Prods Co 1150 Chesapeake Av Columbus 12 Ohio
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NORWESCO Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash
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NOURSE FLEXO FLINT Nourse Oil Co Clinton & Frisco Tracks Kansas City 8 Mo
NOURSE FORM OIL Nourse Oil Co Clinton & Frisco Tracks Kansas City 8 Mo
NOVA Nova Sales Co Trenton 3 NJ
NOVACRETE Nova Sales Co Trenton 3 NJ
NOVAFILL Nova Sales Co Trenton 3 NJ
NOVAFOLD Nova Sales Co Trenton 3 NJ
NOVALASTIC Nova Sales Co Trenton 3 NJ
NOVAMIX Nova Sales Co Trenton 3 NJ
NOVAPRIME Nova Sales Co Trenton 3 NJ
NOVOPLY United States Plywood Corp 55 W 44th New York 36 NY
NO-WOOD Wood Conversion Co 1st National Bank Bldg St Paul 1 Minn
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NU-HUE Martin-Senour Co 2520 S Quarry Chicago 8 Ill
NU SURFAS Nu Surfas Corp 7312 S Bennett Av Chicago 49 Ill
NUTTING Nutting Truck & Caster Co 1625 W Division Faribault Minn
NU-WALL Nu-Wall Mfg Co 923 N 19th Milwaukee 3 Wis
NYE-UNIVERSAL PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind

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OAKES Oakes Mfg Co Inc 516 Dearborn Tipton Ind
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OHIO Ohio Hydrate & Supply Co Woodville Ohio
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P-F SLIDER Per-Fit Prods Corp 1200 E 52nd Indianapolis 5 Ind
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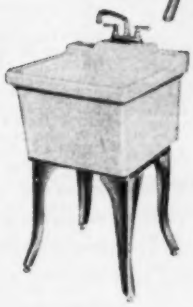
B-584—40" x 23"



B-570—20" x 23"

Here's a fixture that will complement the appearance of any utility room, kitchen or basement laundry. Its styling and gleaming whiter-white finish match other appliances.

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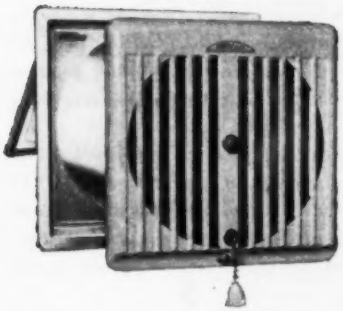

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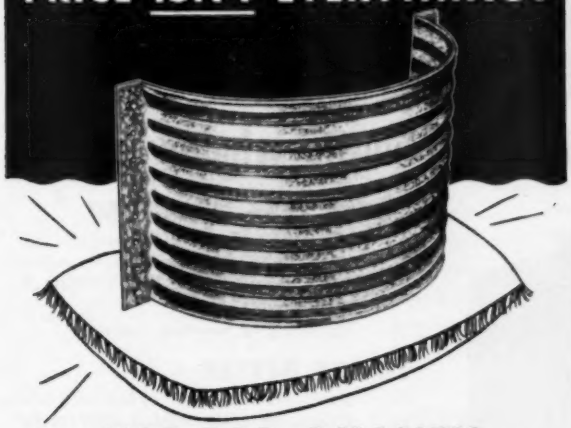
RANGE-VENTOR Universal Blower Co 1090 S Adams Av Birmingham Mich
RA-TOX Hough Shade Corp 1203 S Jackson Janesville Wis
RAY Ray Oil Burner Co 1301 San Jose Av San Francisco 12 Cal
RAZON Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
READING Hardware Prods Co Inc 806-12 126th Reading Pa
READING Reading Crane & Hoist Corp 2100 Adams Reading Pa
READY HUNG DOORS Ready Hung Door Corp 204 Neil P Anderson Bldg Fort Worth Texas
READYBUILT FIREPLACES Readybuilt Prods Co 1707-23 McHenry Baltimore 23 Md
RED BRAND Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill
RED CAP Warner Ventilor Co 217 E Spring LaGrange Ind
RED CHIEF Hartwell Bros Hollywood Station Memphis 8 Tenn
RED CROWN Hynes & Cox Electric Co Cohoes Rd & Elm Watervliet N Y
RED DEMON American Kitchens Div Avco Mfg Corp 18th & Columbia Connersville Ind
RED DEVIL TOOLS Red Devil Tools 130 Colt Irvington NJ
REDDI-MOUNT Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY
REDEGE National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa
RED END Lufkin Rule Co 1730 Hess Saginaw Mich
RED END Simonds Saw & Steel Co 470 Main Fitchburg Mass
RED STREAK Simonds Saw & Steel Co 470 Main Fitchburg Mass
RED-STRIPE Clover Mfg Co 333 Main Norwalk Conn
RED STRIPE Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
RED TAG Cyclone Fence Dept American Steel & Wire Div US Steel Corp Box 260 Waukegan Ill
RED TANG Simonds Saw & Steel Co 470 Main Fitchburg Mass
RED TOP Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill
RED TOP United States Gypsum Co 300 W Adams Chicago 6 Ill
RED WING Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
REDI-CORD REEL Craco Corp 1703 Alamo Dr Glendale 7 Cal
REDI-FENCE Tennessee Fabricating Co 1490 Grimes Memphis Tenn
REDI-GATE Tennessee Fabricating Co 1490 Grimes Memphis Tenn
REDI-HOSE REEL Craco Corp 1703 Alamo Dr Glendale 7 Cal
REDI-RAIL Tennessee Fabricating Co 1490 Grimes Memphis Tenn
REDUCIT O'Brien Corp 101 N Johnson South Bend 21 Ind
REDY KORNERS Capilano Timber Co Ltd Box 608 Vancouver BC Canada
REELITE Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill
REFLECTO Reflecto Letters Inc 411 E 101st New York 29 NY
REFLECTOTHERM Reflectotherm Inc 26 E University Av Cincinnati 19 Ohio
REFRACT-O-CRETE Acme Brick Co Box 425 Fort Worth Tex
REFRIGERATED - ROLLER - AIRE United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn
REGAL Athens Stove Wks Inc Hicks St Athens Tenn
RELIABLE Ajax Building Bracket Co 1551 Rydal Mount Rd Cleveland Heights 18 Ohio
RELIABLE Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
RELIABLE Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
RELIABLE Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
RELIANCE (R) Reliance Mfg Co Inc 626 SE Stark Box 2231 Portland 14 Ore
RELY-ON Armstrong Co 1001 E 103rd Chicago 28 Ill
REMINGTON Cohn (E) & Sons Inc 900 L SW Cedar Rapids Iowa
RE-MO-TROL Templeton Kenly & Co Gardner Rd Broadview Ill
REMOV-A-SEAL Farley & Loetscher Mfg Co Dubuque Iowa
RE-NU-IT Re-Nu-It Corp 424 W 42d New York 36 NY
REPUBLIC STEEL KITCHENS Berger Mfg Div Republic Steel Corp 1038 Belden Av NE Canton 5 Ohio
RESINIZED SPEED-GRITS Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY
RESOLITE Resolite Corp Zelienople Pa
RESTOREX Penetone Co 74 Hudson Av Tenafly NJ
RESURFO Reardon Co 7501 Page Av St Louis 14 Mo
REVOLVO Frick Gallagher Mfg Co Michigan Av Wellston Ohio
REX Chain Belt Co 1600 W Bruce Milwaukee 1 Wis
REX Cleveland Heater Co 2310 Superior Av Cleveland 14 Ohio
REX Kees (F D) Mfg Co 700 Park Av Beatrice Neb
REX AIRATE Cleveland Heater Co 2310 Superior Av Cleveland 14 Ohio
REX-AIR-PAK Cleveland Heater Co 2310 Superior Av Cleveland 14 Ohio
REZ Roddis Plywood Corp 1155 Palmetto Marshfield Wis
REZO Paine Lumber Co Ltd 73 W Algona Oshkosh Wis
RICE Rice Pump & Machine Co 400 Park Av Belgium Wis
RICHBEAD Richkraft Co 510 N Dearborn Chicago 10 Ill
RICHBILT SAFETY Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
RICHFLEX Richkraft Co 510 N Dearborn Chicago 10 Ill
RICHKRAFT Richkraft Co 510 N Dearborn Chicago 10 Ill
RIDGID PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind
RIGID BEAM Eastern Machine Prods 1601 Wicomico Baltimore 30 Md
RIGID-TEX METAL Rigidized Metals Corp 687 Ohio Buffalo 3 NY
RIPPLE-FIN-RIPPLE-TUBE McQuay Inc 1600 Broadway NE Minneapolis 13 Minn
RIPPOLITE Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal
RITE-LOCK Adams Rite Mfg Co 540 W Chevy Chase Dr Glendale 4 Cal
RITE-PULL Adams Rite Mfg Co 540 W Chevy Chase Dr Gendale 4 Cal
RIVERBANK DOOR Hardwood Prods Corp 164 Lake Neenah Wis
ROACH CAFE Agkem Inc Div Kalo Co 506 Maine Quincy Ill
ROBBINS Robbins Floor Prods Inc Tuscumbia Ala
ROBBINS FLAME SYSTEM Robbins Lightning Protection Co 124 E 2nd Maryville Mo
ROBBINS LAY-TITE Robbins Flooring Co Reed City Mich
ROBCO TURNINGS Cooke (R F) Mfg Co Cooke Pl Orange Mass
ROBERTSVILLE Milliken Brick Co 2100 Montier Pittsburgh 21 Pa
ROBOT Robot Appliances Inc 13165 Prospect Av Dearborn Mich
ROCK CORK Johns-Manville 22 E 40th New York 16 NY
ROCKET Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
ROCKET 333 Grant Pulley & Hdwe Corp 31-63 Whitestone Pkwy Flushing NY
ROCKET 1000 Grant Pulley & Hdwe Corp 31-63 Whitestone Pkwy Flushing NY
ROCK ISLAND Birtman Electric Co 4140 Fullerton Av Chicago 39 Ill
ROCKLATH United States Gypsum Co 300 W Adams Chicago 6 Ill
ROCK-TEX Rockford Paint Mfg Co 200 Sayre Rockford Ill
ROCOP Rome-Turney Radiator Co Canal St Rome NY
ROC-WOOD Roc-Wood Flooring Co 2268 S Parkway Chicago 16 Ill
RODDISCRAFT Roddis Plywood Corp 1155 Palmetto Marshfield Wis
ROE Roe (Justus) & Sons Inc 1 Roe Ct Patchogue NY
ROE ANGLE SQUARE Roe (Justus) & Sons Inc 1 Roe Ct Patchogue NY
ROGERS Rogers Paint Prods Inc 8250 St Aubin Detroit 11 Mich
ROGERS FAMOUS LIQUID FISH GLUE Rogers Isinglass & Glue Co 210 Eastern Av Gloucester Mass
ROLL-A-BAG Kees (F D) Mfg Co 700 Park Av Beatrice Neb
ROLITON Roliton of America 714 E Van Buren Phoenix Arizona
ROLLA-HEAD Eastern Machine Prods 1601 Wicomico Baltimore 30 Md
ROLLAWAY Frantz Mfg Co 301 W 3rd Sterling Ill
ROLL-EEZ Junior-Pro Prods Co 3206 Morganford Rd St Louis 16 Mo
ROLLMASTER Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
ROLL-O-HOIST Construction Machinery Cos 420 Vinton Waterloo Iowa
ROLL-ON Wooster Brush Co Madison Av Wooster Ohio
ROLL-OR-WHEEL Buschman (E W) Co Clifton Av at Winton Pl Cincinnati 32 Ohio
ROLLTOP Curry Steel Prods Co 417 S Spring Independence Mo
ROLLWELD Moore Dry Kiln Co 1220 W State Jacksonville Fla
ROLTITE CEMENT Midcontinent Adhesive Co 70 W Park Grove City Ohio
ROL-TOP Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio
ROLY-DOOR Morrison Steel Prods 601 Amherst Buffalo 7 NY
ROOFINSUL Johns-Manville 22 E 40th New York 16 NY
ROOS COLUMN CLAMPS Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind
ROOSHORS Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind
ROTARY Swartwout Co 18511 Euclid Av Cleveland 12 Ohio
ROTECIDE Rotenone Prods Co 110 Eaton Pl East Orange NJ
ROTO SPEED PLANER Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo
ROTO STRIP Neo Ray Prods Inc 315 E 22nd New York 10 NY
ROTO-TRAY American Kitchens Div Avco Mfg Corp 18th & Columbia Connersville Ind
ROTO-WAITERS Sedgwick Machine Wks 154 W 15th New York 11 NY
ROT-STOP Rockford Paint Mfg Co 200 Sayre Rockford Ill
RO-WAY Rowe Mfg Co 614 W Third Galesburg Ill
ROXBOARD National Tileboard Corp 1314 Blondell Av New York 61 NY
ROX MASONRY PAINT Rox Prods Co 9930 Freeland Detroit 27 Mich
ROYAL Chattanooga Royal Co E Chattanooga Tenn
ROYAL Independent Metal Strap Co Inc 230 Third Brooklyn 15 NY
ROYAL Sloan Valve Co 4300 W Lake Chicago 24 Ill
ROYAL Special Prods Co Judd St Chattanooga 6 Tenn
ROYAL DEXTER Russell Harrington Cutlery Co 44 River Southbridge Mass
ROYAL EAGLE Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY
ROYAL-WOOD Mengel Co 4th & Colorado Louisville 1 Ky
RUBBERCOAT Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass
RUBBERCOTE Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
RUBBERLOCK Mitchell Rubber Prods Inc 2130 San Fernando Rd Los Angeles 65 Cal
RUBBERSHIELD Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
RUB-R-BASE Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
RUGBY Standard Brick & Tile Corp 123 NW Fourth Evansville 8 Ind
RUNWELL Frantz Mfg Co 301 W 3rd Sterling Ill
RUSSELL Russell Harrington Cutlery Co 44 River Southbridge Mass
RUST-NOMO-RE Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
RUST-OLEUM Rust Oleum Corp 2425 Oakton Evanston Ill
RUSTREM Speco Inc 7308 Associate Av Cleveland 9 Ohio
RUUDIATOR Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
RUUD-MONEL Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
RYOLEX Silbrico Corp 5901 W 66th Chicago 38 Ill

S

SBP Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
S I S Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
S-P Aerovent Fan Co Inc Ash & Beacon Piqua Ohio
SP Service Parts Systems Inc 15102 Charlevoix Av Grosse Pointe 30 Mich
S P SUPREME Southern Pine Lumber Co Diboll Tex
S R P Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
SABINITE United States Gypsum Co 300 W Adams Chicago 6 Ill
SAFE-O-MATIC Crofoot Mfg Co 217 Evergreen Mount Prospect Ill
SAFE TREAD Safe Tread Co Inc 30 Vesey New York 7 NY
SAFETECH Capewell Mfg Co 60-70 Governor Hartford 2 Conn
SAFETEE Safetee Glass Co 4717 Stenton Av Philadelphia 44 Pa
SAFETY PULL Coffing Hoist Co 800 Walters Danville Ill
SAFETY TRUCK BRAKE Advance Car Mover Co Inc 112 N Outagamie Appleton Wis
SAF-T-CUT Bay State Abrasive Prods Co Union St Westboro Mass
SAF-TE Wilson Imperial Co 115 Chesnut Newark 5 NJ
SAF-T-LOCK Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa

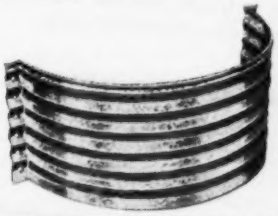
PRICE ISN'T EVERYTHING!



USE TOP QUALITY USF WINDOW WELLS AS YOUR SYMBOL OF BETTER BUILDING

Custom DELUXE QUALITY

One of the proofs you can give of quality building is to use USF *Custom* Deluxe Quality Window Wells. They are made of heavy gauge steel, deep corrugated with a full turned reinforcing bead to add strength across entire top. Flat mounting flanges hug masonry tight. Extra heavy bright galvanize finish gives maximum reflectance and longest service.



FINEST LOW COST WELL MADE

For absolute best quality at economy prices, use the USF *Standard* Window Well—one standard size for most openings. Heavy gauge steel, completely corrugated (not just ribbed) with flat crimped reinforcing bead and wide mounting flanges. Extra bright galvanized but still low, low priced.

USF® MANUFACTURED FROM U·S·S STEEL UNITED STATES STEEL

See Your Building Supply Dealer

UNITED STEEL FABRICATORS, INC.
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AND SELL YOUR HOUSES FASTER

A proven fact! Ask any builder who installs BILCO Doors. He'll tell you it's the best selling feature he ever used. Home buyers sign up fast when basements are useful, livable and safe. Don't "date" your homes — investigate America's fastest growing building product . . . the BILCO all-metal permanent door.

Direct access to the basement eliminates tracking mud and dirt through the upstairs rooms. Countless steps are saved by repairmen, servicemen and the home owner. It's the only means of installing big equipment necessary for a work shop, recreation room or extra living room.

Check all these Bilco Benefits!

ECONOMICAL!
LIFE-TIME DURABILITY!
WEATHER-TIGHT!
FIRE-PROOF!
BURGLAR-PROOF!

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I build ☐ 10 or less ☐ 10-100 ☐ 100-500 houses

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ADDRESS _____
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TENSION-*tite**

the builder's favorite window screen

COSTS LESS INSTALLED

You save both on initial cost and on labor. TENSION-*tite* screens are accurately installed from inside within 4 to 5 minutes.

No fitting or painting . . . ever!

LOOKS BETTER

Trim, streamlined TENSION-*tite* screens have the neatest appearance and admit the most light of any window screen.

LASTS LONGER

Made entirely of aluminum. No dissimilar metals to cause corrosion . . . no steel parts to rust. They last for years and years.

SIMPLEST HARDWARE

Bottom catches are released by pushing down and out. There are no knobs or levers to attract children. Tension can be adjusted with screwdriver so that youngsters cannot open screen.

WON'T SPLIT BLIND STOP

Tension is applied by two screws driven into the thick sill, rather than by screws driven into the narrow, exposed, and often brittle blindstop.

NO CENTER BOW

TENSION-*tite* screens never bow in the middle because an extra center catch is automatically added to all TENSION-*tite* screens over 3'-0".

** Trade mark of Rudiger-Lang Co.*

it's TENSION-*tite* with builders who know

RUDIGER-LANG CO.

Suite 310, International Trade Mart, New Orleans 12, La.
2701 Eighth Street, Berkeley 10, California
In Southern California: TENSION-tite Window Screen Co.,
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SAFTI-VENT Little (H C) Giant Prods Inc 1530 N Adams Peoria 3 Ill
SAFEWAY Logan-Long Co 6600 S Central Av Chicago 38 Ill
SAFWAY Safeway Steel Prods Inc 6228 W State Milwaukee Wis
ST PAUL St Paul Corrugating Co South End Wabasha St Bridge St Paul 1 Minn
SALEM Johns-Manville 22 E 40th New York 16 NY
SALEM LINE Irmanton Prods Co 37-26 Prince Flushing LI NY
SAL-MO Sall Mountain Co Box 777 Hamilton Ohio
SAMCO Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY
SAMPSON Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
SANACOUSTIC Johns-Manville 22 E 40th New York 16 NY
SANATOR Pittsburgh Incinerator Co 130 Beam Way Pittsburgh 11 Pa
SANDMASTER Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
SANDRAN Sandura Co Inc Architects Bldg 17th & Sansom Philadelphia 3 Pa
SAN-EQUIP San-Equip Inc E Brighton & Glen Avs Syracuse 5 NY
SAND-SCOTT Holub Industries Inc 413 DeKalb Av Sycamore Ill
SANETTE Master Metal Prods Inc 291 Chicago Buffalo 4 NY
SANI-FLAT Benjamin Moore & Co 511 Canal New York 13 NY
SANI-KLEEN Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill
SANIMASTER Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa
SANI-SETT Ever-Plastics Corp 420 Lexington Av New York 17 NY
SARGENT Sargent & Co 45 Water New Haven 9 Conn
SATIN-LITE Wallace Mfg Co 10th & Fayette North Kansas City Mo
SATIN SPAR Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
SATINHIDE Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pitsburgh 22 Pa
SATINLAC United States Plywood Corp 55 W 44th New York 36 NY
SATINOL Blue Ridge Glass Corp Libbey-Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio
SATINTEX Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Co
SATINTONE Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
SATUROCK Carter-Waters Corp 2440 Pennway Kansas City Mo
SAUNDERS PATTERN WHEELS Collmer Bros 520 S St Joseph South Bend 1 Ind
SAVABRUSH Schalk Chemical Co 351 E Second Los Angeles 12 Cal
SAV-A-SCREEN Farley & Loetscher Mfg Co Dubuque Iowa
SAV-U-TIME Sav-U-Time Sales Co 88 Manhattan Rochester 7 NY
SAVINOLEUM Pavinoleum Inc 1239 St Nicholas Av New York 32 NY
SAW MASTER Master Woodworker Mfg Co Inc 401-11 E Fort Detroit 26 Mich
SCHLAGE Schlage Lock Co 2201 Bayshore Blvd San Francisco 19 Cal
SCHUNDLER MICA PELLETS Schundler (F E) & Co Inc 504 Railroad Joliet Ill
SCOOPMOBILE Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore
SCOUT Slaymaker Lock Co 115 S West End Av Lancaster Pa
SCREEN-GLASS Flex-O-Glass 1100 N Cicero Chicago 51 Ill
SCREENMASTER - STANDARD Engineered Prod Co 129 Smith Box 118 Flint 4 Mich
SCREWFAST Maze (W H) Co Church & The River Peru Ill
SCUTL O M Scott & Sons Co Marysville Ohio
SEA SWIRL Associated Plywood Mills Inc Box 672 Eugene Ore
SEAL-ALL-ROOF CLIPS Seal-All-Clip Co 4376 W Pasadena Box 302 Flint Mich
SEALCURE #66 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
SEAL GRIP Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
SEALIT Sullivan Co 212 E Trigg Av Memphis Tenn
SEAL-LOCK Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
SEAL RITE Seal Rite Caulking Co 6335 Lyndon Detroit Mich
SEAL-TEC Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
SEALTIGHT Meadows (W R) Inc 2-18 Kimball Elgin Ill
SEAL-TITE Grand Rapids Hdwe Co 560 Eleventh St NW Grand Rapids 2 Mich
SEALTOP Modern Venetian Blinds Inc 261 Fifth Av New York 16 NY
SEAL-TREAT Chapman Chemical Co 707 Dermon Bldg Memphis Tenn
SEALUXE Universal Corp 6710 Denton Dr Dallas Tex
SEASON-ALL Prentice (F W) & Co 430 N Dean Adrian Mich
SEASON-MASTER McQuay Inc 1600 Broadway NE Minneapolis 13 Minn
SECRET SERVICE Master Lock Co 2600 N 32nd Milwaukee 45 Wis
SECTIONFOLD DOORS Wilson (J G) Corp 370 Lexington Av New York 17 NY
SECURIT Blue Ridge Glass Corp Libbey-Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio
SECURITY Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill
SEDCO WINDMASTER Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Texas
SEDCON Sterling Electronic Door Control Corp 323 W Second Rock Falls Ill
SEIDLITZ BEST BY TEST Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
SELCKRAFT Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill
SELECT-O-PHONE Kellogg Switchboard & Supply Co 79 W Monroe Chicago 3 Ill
SEMINOLE Chicago Paints Inc 4500 W 14th Chicago 23 Ill
SENECA Seneca Wire & Mfg Co Vine St Fostoria Ohio
SENIOR Penetone Co 74 Hudson Av Tenafly NJ
SENTINEL Allied Metals Inc 14 Hamilton New London Conn
SENTINEL Speakman Co 30th & Spruce Wilmington 99 Del
SENTRY STOP-A-DRAFT Sentry Stop n Draft Co 20 N Wacker Dr Chicago 6 Ill
SEPCO Sepco Corp 860 Cross Pottstown Pa
SERVANET Hyde Park Prods Co Burch Av & N&WRR Cincinnati 8 Ohio
SERVEL Servel Inc 119 N Morton Av Evansville 20 Ind
SERVICE-MASTER McCabe Powers Auto Body Co 5900 N Broadway St Louis 15 Mo
SERVICE-WAY Heatilator Inc 661 E Brighton Av Syracuse 5 NY
SEVENTY Glen Gery-Shale Brick Corp Box 182 Wyomissing Pa
#77 Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill
SHADE-BETTER Clifton Mfg Co 323 Pleasant E Waco Texas
SHAD-O-LINE Upson Co 43 Upson Pt Lockport NY
SHADOWEDGE Ruberoid Co 500 Fifth Av New York 36 NY
SHADOWLINE Long Fir Gutter Co 418 Lincoln Av Cadiz Ohio
SHALETEX Streator Brick Co Div Hydraulic Press Brick Co 321 E Main Streator Ill
SHALIMAR Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
SHAM-ROCK Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va
SHARP SMITH Belsaw Machinery Co 315 Westport Rd Kansas City 11 Mo
SHARP'S AUTOMATIC FRAMING SQUARE Sharp's Mfg Co Box 332 Salem Ore
SHASTA Wooster Brush Co Madison Av Wooster Ohio
SHAW Quinn Wire & Iron Wks 1200 Cedar Rd Boone Ia
SHAW-BOY Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
SHAWNEE SCOUT DITCHER Shawnee Mfg Co Inc 1947 N Topeka Kan
SHAWNEE HYDRO-CLAM Shawnee Mfg Co Inc 1947 N Topeka Topeka Kan
SHEDWELL Frantz Mfg Co 301 W 3rd Sterling Ill
SHEETROCK United States Gypsum Co 300 W Adams Chicago 6 Ill
SHEFFIELD Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo
SHELBY Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal
SHELBY Shelby Spring Hinge Co Shelby Ohio
SHELLANE Shell Oil Co 50 W 50th New York 20 NY
SHERARDUCT National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa
SHIELDALL Youngstown Industries Inc 710 S State Girard Ohio
SHINGLE-BACKER Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
SHINGLE-SEAL Dewatex Mfg Co 424 W 42nd New York 18 NY
SHINGLSTIK Old American Roofing Mills 7600 Truman Rd Kansas City Mo
SHINO Pioneer Mfg Co 3053-57 E 87th Cleveland 4 Ohio
SHIRLEY Shirley Corp 330 E St Joseph Indianapolis 2 Ind
SHOPMASTER Shopmaster Inc 1214 S 3rd Minneapolis Minn
SHOVELOADER Baker-Lull Corp 314 W 90th Minneapolis 20 Minn
SHOWELL Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio
SHOWERMASTER Harrison Steel Cabinet Co 4718 W 5th Av Chicago 44 Ill
SHOWER-PROOF Calbar Paint & Varnish Co 2612 N Martha Philadelphia 25 Pa
SHUR EDGE Robeson Cutlery Co Inc 3646 Case Perry NY
SHUREBOND UNIT SYSTEM Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio
SHURLOK Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
SHURON FLOOR Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill
SHUR-TRED Johnson (S C) & Son Inc 1525 Howe Racine Wis
SIBLEY Sibley (Edw L) Mfg Co Inc 222 W Main Bennington Vt
SI-CLONE Simonds Saw & Steel Co 470 Main Fitchburg Mass
SIERRA Fiat Metal Mfg Co 9301 Belmont
SI-FLO Speakman Co 30th & Spruce Wilmington 99 Del
SIGNAL Signal Electric Mfg Co 1821 13th Menominee Mich
SIGNWRITERS Commonwealth Pain & Varnish Co 4124 W Parker Av Chicago 39 Ill
SIGUNIT Sika Chemical Corp 35 Gregory Av Passaic NJ
SIKACRETE Sika Chemical Corp 35 Gregory Av Passaic NJ
SIKA KOTE Sika Chemical Corp 35 Gregory Av Passaic NJ
SIKA SEAL Sika Chemical Corp 35 Gregory Av Passaic NJ
SILAKOTE Weatherguard Service Inc 564 Jackson Av New York 55 NY
SILATEX Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
SILATEX Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
SILENDOR Weisberg-Baer Co 405 26th Av Long Island City 2 NY
SILENTVANE Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa
SILICONIZ Lockrey Co Southampton New York
SILIPHANE Prima Prods Inc 10 E 40th New York NY
SILITEX Prima Prods Inc 10 E 40th New York NY
SILL-SEALER Wood Conversion Co 1st National Bank Bldg St Paul 1 Minn
SIL-O-ETT United States Gypsum Co 300 W Adams Chicago 6 Ill
SILVERCOTE DUPLEX Silvercote Prods Inc 161 E Erie Chicago Ill
SILVERCOTE SIMPLEX Silvercote Prods Inc 161 E Erie Chicago Ill
SILVEREME Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo
SILVER LAKE Silver Lake Co 60 Batterymarch Boston 10 Mass
SILVER LINE Union Machine Co 708 Colfax Av Kenilworth NJ
SILVER SENTINEL Slaymaker Lock Co 115 S West End Av Lancaster Pa
SILVERTILE Cheesman Elliot Co Inc 645 Kent Av Brooklyn 11 NY
SIMPLEX Crescent Brass & Pin Co 5760-5800 Trumbull Av Detroit 8 Mich
SIMPLEX Mansfield Sanitary Pottery Inc Perrysville Ohio
SIMPLEX Templeton Kenly & Co Gardner Rd Broadview Ill
SIMPSON Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal
SISALATION Sisalkraft Co 205 W Wacker Dr Chicago 6 Ill
SISALKRAFT Sisalkraft Co 205 W Wacker Dr Chicago 6 Ill
SITE-SAVER International Lighting Co 6511 Easton St Louis 14 Mo
6000 INDUSTRIALIST Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
61 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY
SKID-LOADER Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis
SKID-SHOVEL Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis
SKIPPER Astrup Co 2937 W 25th Cleveland 13 Ohio
SKIPPER Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
SKOTCH Superior Fastener Corp 2949 Elston Av Chicago 18 Ill
SKUFPRUF Richkraft Co 510 N Dearborn Chicago 10 Ill
SKY-BLAST Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio
SKYLIFT Automatic Transportation Co 101 W 87th Chicago 20 Ill
SKYLINE Toledo Desk & Fixture Corp 1020 Ford Rd Maumee Ohio
SKYMASTER Acme Equipment Co 213 E Broadway Muskogee Okla
SKYTROL Pittsburgh Corning Corp 1 Gateway Center Pittsburgh 22 Pa
SLENDER Dunkirk Radiator Corp 85 Middle Rd Dunkirk NY
SLICK-SPRAY Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill
SLIDE-A-FOLD Craig-Wood Prods Co Brennan Rd Columbus Ga
SLIDE-O-VENT Rene-Craft Prods 406 Linden Av Wilmette Ill
SLIDETOP Cutry Steel Prods Co 417 S Spring Independence Mo
SLIDE-VIEW Slide-View Steel Door & Window Co 521 N LaCienega Blvd Los Angeles 48 Cal
SMALMESH Inland Steel Prods Co Box 393 Milwaukee 1 Wis
SMART SET DELUXE Consolidated Venetian Blind Co Div Consolidated General Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex
SMITH & EGGE Turner & Seymour Mfg Co Lawton St Torrington Conn
SMITHKO Smith Chemical & Color Co Inc 55 John Brooklyn 1 NY
SMITHMOBILE Smith (T L) Co 2835 N 32nd Milwaukee Wis

SMOOTHLITE Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
SMOOTH-ON Smooth-On Mfg Co 574 Communipaw Av Jersey City 4 NJ
SMOOTH-RUN Clover Mfg Co 333 Main Norwalk Conn
Av Franklin Park Ill
SNAPICALK Seal Rite Caulking Co 6335 Lyndon Detroit Mich
SNAP-ON Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn
SNO-GO Cedar-Lux Prods Co Inc 3244 Holmes Kansas City Mo
SNOW DRIFT United States Gypsum Co 300 W Adams Chicago 6 Ill
SNOWITE Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles Cal
SNUG FIT Paine Co Fullerton Av & Westgate Rd Addison Ill
SNUGGERS Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
SNUG-TITE Engineered Prods Co 129 Smith Box 118 Flint 4 Mich
SOFAMATIC American Bed & Spring Co 5255 Delmar St Louis Mo
SO HARD SCREWS Southington Hdwe Mfg Co 168 Center Southington Conn
SOILAX Economics Laboratory Inc 914 Guardian Bldg St Paul 1 Minn
SOLEX Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
SOLIDOR Farley & Loetscher Mfg Co Dubuque Iowa
SO-LITE McKinley (Orman O) Co 4530 N Keystone Av Indianapolis Ind
SOLVAY AIR-DRYETTE Solvay Process Div Allied Chemical & Dye Corp 61 Broadway New York 6 NY
SONOAIRDUCT Sonoco Prods Co South St Hartsville SC
SONOAIRDUCT-XP Sonoco Prods Co South St Hartsville SC
SONOLASTIC Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
SONOMEND Sonneborn (L) Sons Inc Build-Prods Div 404 Fourth Av New York 16 NY
SONOPATCH Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
SONOSHEEN Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
SONOTUBE Sonoco Prods Co South St Hartsville SC
SOUNDBILT Puget Sound Plywood Inc 230 East "F" Tacoma Wash
SOUTHGATE Puritan Cordage Mills Co 1205 E Washington Louisville 6 Ky
SOVEREIGN Speed-O-Print Corp 1801 W Larchmont Av Chicago 13 Ill
SPACE KLIPS Reflector Hdwe Corp 2245 S Western Av Chicago 8 Ill
SPACE MASTER A R B Window Sales Co 306 E State Fair Av Detroit 3 Mich
SPACE MASTER Reflector Hdwe Corp 2245 S Western Av Chicago 8 Ill
SPACEMASTER Acme National Refrigeration Co Inc 29-24 40th Av Long Island City 1 NY
SPACEMASTER Lewis-Shepard Prods Inc 125 Walnut Watertown Mass
SPACEMASTER New Castle Prods Inc New Castle Ind
SPACE-SAVER Mengel Co 4th & Colorado Louisville 1 Ky
SPAKO-PATCH Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
SPARCLIN Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill
SPARTAN Mansfield Sanitary Pottery Inc Perrysville Ohio
SPARTAN Parker (S) Hdwe Mfg Co 27 Ludlow New York 2 NY
SPA-SAVER Acme National Refrigeration Co Inc 29-24 40th Av Long Island City 1 NY
SPECIFICATION Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
SPECTRO-MATIC TINTING SYSTEM Rockford Paint Mfg Co 200 Sayre Rockford Ill
SPEED Louisville Cement Co 501 S Second Louisville 2 Ky
SPEED Speedway Mfg Co 1834 S 52nd Av Cicero 50 Ill
SPEED Tinnerman Prods Inc Dept 16 Box 6688 Cleveland 1 Ohio
SPEEDAUMAT Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio
SPEED-BARROW American Conveyor Co 1115 W Adams Chicago 7 Ill
SPEE-D-DRY Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich
SPEEDECK Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
SPEE-DEE Dalton Mfg Co 20 S Central Av St Louis 5 Mo
SPEEDHEATERS Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass
SPEEDI-GLU White Adhesive Co 2 Harrington Newtonville Mass
SPEED DE PRINTER Peck & Harvey 5650 N Western Av Chicago Ill
SPEED-OM-ATIC Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa
SPEED-WET METALITE Behr-Manning Div Norton Co 1554 Seifert Troy NY
SPEEDMOUNT Bell Electric Co 1844-50 W 21st Chicago 8 Ill
SPEEDRIL Lockwood Hdwe Mfg Co Fitchburg Mass
SPEEDSTER Hyde Mfg Co Eastford & Clemence Southbridge Mass
SPEEDTILE Rockford Brick & Tile Co Rockford Iowa
SPEEDWAY Wright Hoist Div American Chain & Cable Co York Pa
SPEEDY SPRAYERS Brown (W R) Corp 2701 N Normandy Av Chicago 35 Ill
SPENCER (HEATER) Lycoming-Spencer Div Avco Mfg Co Williamsport Pa
SPINDRIER Easy Washing Machine Corp Solar & Spencer Syracuse NY
SPINTEX Johns-Manville 22 E 40th New York 16 NY
SPIRALATOR AUTOMATIC WASHER Easy Washing Machine Corp Solar & Spencer Syracuse NY
SPIROLOC Universal Form Clamp Co 1248 N Kostner Av Chicago 51 Ill
SPLASH VALLEY Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
SPOKANE Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash
SPOT Samson Cordage Wks 89 Broad Boston 10 Mass
SPOTNAILS Spotnails Inc 1527 Lyons Evanston Ill
SPRAY-ACOUSTIC Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
SPRAYCAT Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
SPRAY-COTE Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
SPRAYCRAFT Smith & Kanzler Corp E Linden Av Linden NJ
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SPRAYMORE Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
SPRAYO-FLAKE Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
SPRAY-SEAL Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill
SPRAYSHIELD Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa
SPREAD-EASY Debs Decorators Old Middleton Rd Madison 5 Wis
SPRING-TITE Weatherproof Prods Corp Waldo Station Box 8498 Kansas City 5 Mo
SPRING WING Paine Co Fullerton Av & Westgate Rd Addison Ill
SQUARE GEE Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio
STAB-LOK Federal Electric Prods Co 50 Paris Newark 5 NJ
STABILIZED Mengel Co 4th & Colorado Louisville 1 Ky
STA-DRI American Sta-Dri Co 4019 38th Brentwood Md
STA-TITE Sta-Tite Inc 4020 N Port Washington Av Milwaukee 12 Wis
STA-ZIT Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
STAIR-FAN Huntington Industries Inc 2368 Prospect Memphis Tenn
STAKMASTER Stacor Equipment Co 768 New York Av Brooklyn 3 NY
STAND-ALL Simonds Saw & Steel Co 470 Main Fitchburg Mass
STANDARD Harris Preble Fire Doors Inc 4608 W 20th Chicago 50 Ill
STANDARD Lanebro Mfg Co 110 Main Poughkeepsie NY
STANDARD Shelby Metal Prods Co Shelby Ohio
STANDARD CORK TILE Dodge Cork Co Inc Laurel & Manor Lancaster Pa
STANDARD ELECTRIC FAN Standard Electric Mfg Co Inc Haddon Av West Berlin NJ
STANDARD-FLUSH DOOR Hardwood Prods Corp 164 Lake Neenah Wis
STANDARD HOMES Standard Homes Co 2524 "L" St NW Washington 7 DC
STANDARDOR Mengel Co 4th & Colorado Louisville 1 Ky
STANDARD'S Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill
STANTEX Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
STANTHONY Stanthony Corp 2305 W Alameda Burbank Cal
STANTOX Abesto Mfg Corp 131 Wabash Michigan City Ind
STAPLECRAFT Acme Staple Co 1643 Haddon Av Camden 3 NJ
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STAR Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio
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STAR BRAND Turner & Seymour Mfg Co Lawton St Torrington Conn
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STARCK Gagnon Clay Prods Co 526 S Broadway Green Bay Wis
STARLIFE Hanover Wire Cloth Div Continental Copper & Steel Industries Inc 1945 Continental Hanover Pa
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STAY RIB Inland Steel Prods Co Box 393 Milwaukee 1 Wis
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STAZON Plastic Prods Co 6473 Georgia Detroit 11 Mich
STEELBINDER Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill
STEELCOTE Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo
STEEL-FASHIONED Walters Mfg Co 140 Pennsylvania Av Oakmont Pa
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STEEP-SLOPE Bennett-Ireland Inc 23 State Norwich NY
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STERILAMPS Westinghouse Electric Corp Lamp Div Bloomfield NJ
STERLING Sterling Hdwe Mfg Co 2345 W Nelson Chicago 18 Ill
STERLING Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass
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STILEMANOR Russell & Erwin Div American Hdwe Corp 102 Washington New Britain Conn
STILES Bridgewater Brick Co Spring St East Bridgewater Mass
STOKERMATIC Stokermatic Co 1610 Industrial Rd Salt Lake City Utah
STOKER-VEYOR American Conveyor Co 1115 W Adams Chicago 7 Ill
STONEFIL Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill
STONEWALL BOARD Ruberoid Co 500 Fifth Av New York 36 NY
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STOP-RUST PP Stop-Rust Co Box 2054 Chattanooga 9 Tenn
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STORM KING Chicago Paints Inc 4500 W 14th Chicago 23 Ill
STORMTIGHT Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
STOR-VAULT Wilson Refrigeration Inc Glenwood Av Smyrna Del
STRADDLE TRUCK Hyster Co 2905 NE Clackamas Portland 8 Ore
STRAN-STEEL FRAMING Great lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich
STRAND Detroit Steel Prods Co 2250 E Grand Blvd Detroit 1 Mich
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STREAM-LINE Rotary Clothes Dryer Co Inc 836-46 Lawrence Allentown Pa
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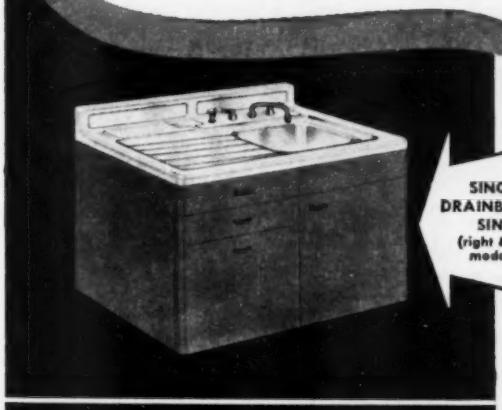
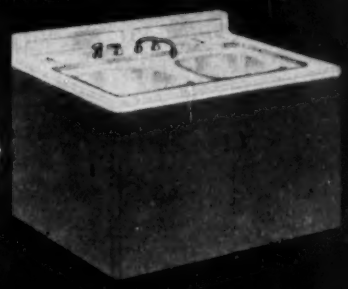
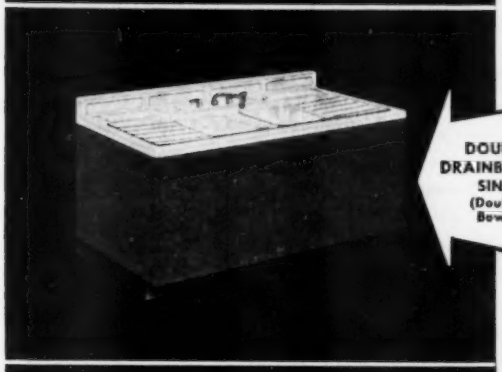


SINGLE DRAINBOARD SINK (right & left models)

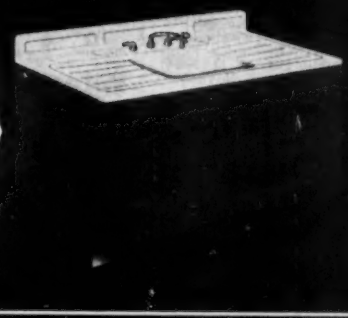
SINK & TRAY COMBINATION (42" x 25" 48" x 25")

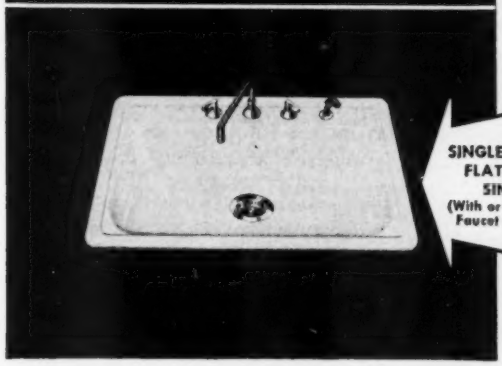




DOUBLE DRAINBOARD SINK (Double Bowl)

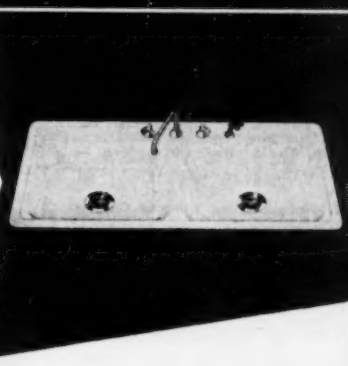
DOUBLE DRAINBOARD SINK (Single Bowl)





SINGLE BOWL FLAT RIM SINK (With or Without Faucet Ledge)

DOUBLE BOWL FLAT RIM SINK (With or Without Faucet Ledge)



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SUN FUEL-MASTER Patten (J V) Co 550 DeKalb Av Sycamore Ill
SUN-PROOF Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
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SUPER-DUTY Harris Preble Fire Doors Inc 4608 W 20th Chicago 50 Ill
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SURE GRIP Samson Cordage Wks 89 Broad Boston 10 Mass
SURE GRIP Tuck Mfg Co 74 Ames Brockton 39 Mass
SUREMASTIC Camp Co Inc 6958 S State Chicago 21 Ill
SURE PRIME Jaeger Machine Co 500 W Spring Columbus 16 Ohio
SURFEX Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
SURFWOOD United States Plywood Corp 55 W 44th New York 36 NY
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SWARTWOUT DEXTER Swartwout Co 18511 Euclid Av Cleveland 12 Ohio
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TENNESSEE VARIEGATED Turner Bros Stone Co Inc Box 297 Crossville Tenn
TENNQUARTZ Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn
TENSULATE Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn
TENSULATE PERLITE Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn
TERALITE Chase Brass & Copper Co Inc 236 Grand Waterbury 20 Conn
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TEXTOLITE General Electric Co Chemical Div 1 Plastics Av Pittsfield Mass
TEXTONE United States Gypsum Co 300 W Adams Chicago 6 Ill
TEXTONE V-4 Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio
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TEXTUR-SEAL Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
TEX-VIT Texas Vitrified Pipe Co Box 111 Mineral Wells Tex
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THE KNIGHT Knight Mfg Co 2930 S Washington Saginaw Mich
THE NATION'S BUILDING STONE Woolery Stone Co Inc Box 49 Bloomington Ind
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THERMO-BASE Gerwin Industries Inc Thermo-Base Div 214 Spring Michigan City Ind
THERMOBESTOS Johns-Manville 22 E 40th New York 16 NY
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TILEMASTER Tilemaster Corp 1415-21 Diversey Pkwy Chicago 14 Ill
TILENE Bestile Mfg Co State & Sultana Ontario Cal
TILE-TEX Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
TILETTE Tilette Cement Co Inc 401 Lafayette New York 3 NY
TILON Ever-Plastics Corp 420 Lexington Av New York 17 NY
TIMBERTOX Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo
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TITE-ON Ruberoid Co 500 Fifth Av New York 36 NY
TOMAHAWK True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
TOMB Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
TOMMY AXE True Temper Corp 1623 Euclid Av Cleveland 15 Ohio
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TOP-FLIGHT Mengel Co 4th & Colorado Louisville 1 Ky
TOPSEAL FASTENER Fabricated Prods Co Water St West Newton Pa
TORIDHEET Cleveland Steel Prods Corp Toridheet Div 15801 Brookpark Rd Cleveland 11 Ohio
TORK Tork Clock Co Inc 1 Grove Mt Vernon NY
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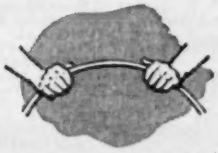
WHY REVERE COPPER WATER TUBE IS PREFERRED BY—

Architects, Builders, Plumbing & Heating Contractors



EASY TO BEND

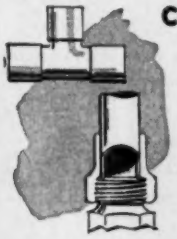
Saves Time

Revere Copper Water Tube is easy to bend. Soft temper can be bent by hand to meet installation conditions.

HANDY LENGTHS

Save Fittings . . . Labor

Revere Copper Water Tube comes in straight lengths of 20' in hard and soft tempers. 60' coils of soft temper reduce the number of fittings needed.



SOLDER OR COMPRESSION FITTINGS

Need Less Work Room . . . Save Metal

No worry about wrench room when you use Revere Copper Water Tube with solder fittings. Compression fittings can also be used. No threading is necessary with either type fitting. Wall thickness of tube used can thus be less than for threaded pipe.

NON-RUSTING

Rustable pipe eventually clogs as shown in drawing at top right. Non-rustable Revere Copper Water Tube suffers no loss of flow or pressure as shown at bottom right. No allowance in pipe size need be made for rust accumulation with Revere Copper Water Tube.

TOWERMOBILE Mixermobile Manufacturers 8027 NE Killingsworth Portland 20 Ore
TRACEMASTER Stacor Equipment Co 768 E New York Av Brooklyn 3 NY
TRACTOR DONKEY Hyster Co 2905 NE Clackamas Portland 8 Ore
TRACTORMOBILE Mixermobile Manufacturers 8027 NE Killingsworth Portland 20 Ore
TRADESMAN Woodenware Prods Corp 122 N 7th St Louis 1 Mo
TRADESMASTER Tipp Mfg Co N Fourth Tipp City Ohio
TRADITIONAL Gerber Plumbing Fixtures 232 N Clark Chicago Ill
TRAFFIC Johnson (S C) & Son Inc 1525 Howe Racine Wis
TRAFFIC-COTE Johnson (S C) & Son Inc 1525 Howe Racine Wis
TRAILMOBILE Trailmobile Inc 31st & Robertson Cincinnati 9 Ohio
TRANSCRETE Construction Machinery Cos 420 Vinton Waterloo Iowa
TRANSEAL Spray-O-Bond Co 2225 N Humboldt Av Milwaukee 12 Wis
TRANSITE Johns-Manville 22 E 40th New York 16 NY
TRANSLOT Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind
TRANSLOT Texas Vitrified Pipe Co Box 111 Mineral Wells Tex
TRANSPORT Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo
TRANSPORTER Automatic Transportation Co 101 W 87th Chicago 20 Ill
TRANSRIDER Automatic Transportation Co 101 W 87th Chicago 20 Ill
TRANSTACKER Automatic Transportation Co 101 W 87th Chicago 20 Ill
TRANSTRACTOR Automatic Transportation Co 101 W 81st Chicago 20 Ill
TRANSVEYOR Automatic Transportation Co 101 W 87th Chicago 20 Ill
TREASURE ISLE Midwest Jobbers Inc 3300 S Racine Av Chicago 8 Ill
TREE TANGLEFOOT Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich
TREMLUX Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio
TREMONT Tremont Nail Co 21 Elm Wareham Mass
TRENFLEX Trenton Pipe Nipple Co 626 Brunswick Av Box 1234 Trenton NJ
TRI-CLAD General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY
TRIG-R-HEAT Wall (P) Mfg Co Erie St Grove City Pa
TRI-LOK Dravo Corp Fifth & Liberty Av Pittsburgh 22 Pa
TRILUG Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass
TRIMIX Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY
TRIMO PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind
TRIMRAD Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ
TRIMRAD Waterfilm Boilers Inc 36-40 New York Av Jersey City NJ
TRIMVIEW Stewart Screen Co 32 S Raymond Av Pasadena 1 Cal
TRIMZ United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill
TRION Trion Inc 1000 Island Av McKees Rocks Pa
TRIPLE SEAL Weatherproof Prods Corp Waldo Sta Box 8498 Kansas City 5 Mo
TRIWAY US Expansion Bolt Co State St & PRR York Pa
TROJAN Buschman (E W) Co Clifton Av & Winton Pl Cincinnati 32 Ohio
TROJAN Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY
TROJAN Parker Mfg Co 149 Washington Worcester Mass
TROJAN Standard Mfg Co 22 E 4th Cedar Falls Iowa
TROJAN Tilley (John S) Ladders Co 100-122 Second Watervliet NY
TROUBLE SAVER Patent Scaffolding Co 38-21 12th Long Island City 1 NY
TROUBLE SAVER Steel Scaffolding Co 856 Humboldt Brooklyn 22 NY
TRU-FLECT Binswanger & Co 207 N Main Houston 1 Tex
TRU-FORM Boice Crane Co 930 W Central Av Toledo 6 Ohio
TRUGRAIN United States Plywood Corp 55 W 44th New York 36 NY
TRU GROOVE Western Saw Mfrs Inc 1842 W Washington Blvd Los Angeles Cal
TRU-SEAL Tru-Seal Window Div Industrial Machine Tool Co Inc 301 S Oak Fenton Mich
TRUMBULITE Trumbull Components Dept General Elec Co Plainville Conn
TRUSCON Devoe & Raynolds Co Inc 787 First Av New York 17 NY
TRUSSTEEL United States Gypsum Co 300 W Adams Chicago 6 Ill
TRUSTY Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill
TRUWOOD United States Plywood Corp 55 W 44th New York 36 NY
TUB-A-DOR Youngstown Mfg Inc 66-76 S Prospect Youngstown Ohio
TUBAR Superior Window Co 5300 NW 37th Av Miami Fla
TUB-KOVE Keller Prods Inc 7039 Superior Av Cleveland 3 Ohio
TUFCRETE APS Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUFDEK Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUFDENSE Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUFF-BOND Moore (Goodloe E) Inc Box 846 Danville Ill
TUFFDECK Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
TUFFLEX Serviceed Prods Corp 6051 W 65th Chicago 38 Ill
TUFFLEX Wood Conversion Co 1st Natl Bank Bldg St Paul 1 Minn
TUF-FLEX Millers Falls Co Wells & Devon Greenfield Mass
TUF-FLEX DOORS Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio
TUFFKLAY Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
TUFFLOOR Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
TUFFSEAL Tuffalt Inc 137 Bausman Pittsburgh 10 Pa
TUFF-TEX Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill
TUFF-TRED Moore (Goodloe E) Inc Box 846 Danville Ill
TUFFY Beneke Corp Box 271 Columbus Miss
TUFSEAL Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUFTITE Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUFTOP Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa
TUGGER Construction Machinery Cos 420 Vinton Waterloo Iowa
TUGIT Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich
TUNGSEAL McCloskey Varnish Co 7600 State Rd Philadelphia 36 Pa
TURBO-BASE Uno Ventilator Co 1236 Eastern Av Malden 48 Mass
TURNER Turner Brass Wks 821 Park Av Sycamore Ill
TURNLOK Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
TURQUOISE Eagle Pencil Co 703 E 13th New York 9 NY
TU-VUE Ornas & LaBarre 28697 Mound Rd Centerline Mich
TWIN ANCHOR Manhattan Terrazzo Brass Strip Co Inc Box 187 Norwalk Conn
TWINDOW Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
TWIN ROLLOR McKee Door Co 110 Hankes Aurora Ill
TWIN-SLIDE Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY
TWINSTILE Schacht Associates Inc 1175 E 156th New York 59 NY
TWIST NON ELECTRIC CHIME Edwards Co Inc Post Rd Norwalk Conn
TWISTYE Universal Form Clamp Co 1248 N Kostner Av Chicago 51 Ill
TYLE-BORD Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash
TYLOK ANKORS Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn
TYPE S & TYPE P Winslow Government Standard Scale Wks Inc 25th & Haythorne Av Terre Haute Ind
TYRA Tyra (R K) Co Hwy 61 Tyra Minn
TYTE-SEAL Weatherguard Service Inc 564 Jackson Av New York 55 NY

U

U/R Universal Rundle-Corp Box 960 New Castle Pa
URC Utica Radiator Corp 2201 Dwyer Av Utica NY
U S United States Radiator Corp Buhl Bldg Detroit 31 Mich
US AIR CO United States Air Conditioning Corp Como Ave SE at 33rd Minneapolis 14 Minn
U S S NATIONAL National Tube Div United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
USS SHELBY National Tube Div United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa
UARCO Uarco Inc 5000 S California Av Chicago 32 Ill
UNI-BATCH Winslow Government Standard Scale Wks Inc 25th & Haythorne Ave Terre Haute Ind
UNIFLOW Uniflow Mfg Co 1525 E Lake Rd Erie Pa
UNI-FORM Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill
UNIPAK Farley & Loetscher Mfg Co Dubuque Iowa
UNI-POINT American Woodworking Machinery Co 100 Liberty Hackettstown NJ
UNI-ROL Farley & Loetscher Mfg Co Dubuque Iowa
UNI TRANE Trane Co 3rd & Cameron LaCrosse Wis
UNILINE Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY
UNION Union Steel Chest Corp 54 Church LeRoy NY
UNION Union Tool Co 48 E River Orange Mass
UNISTRUT Unistrut Prods Co 1013 W Washington Blvd Chicago 7 Ill
UNITAIRE Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass
UNIT BREAKER Cutler Hammer Inc 201 N 12th Milwaukee 1 Wis
UNIT ROL Cutler-Hammer Inc 201 N 12th Milwaukee 1 Wis
UNITED United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill
UNITED STATES Emerson Electric Mfg Co 8100 Florissant Av St Louis 21 Mo
UNITOP United States Plywood Corp 55 W 44th New York 36 NY
UNIVERSAL Buschman (E W) Co Clifton Av at Winton Pl Cincinnati 32 Ohio
UNIVERSAL Cribben & Sexton Co 700 N Sacramento Blvd Chicago 12 Ill
UNIVERSAL Johns-Manville 22 E 40th New York 16 NY
UNIVERSAL Landers Frary & Clark Center St New Britain Conn
UNIVERSAL Universal Hoist & Mfg Co Cedar Falls Iowa
UNIVERSAL Universal Motor Co 517 Universal Dr Oshkosh Wis
UNO-BLOCK Uno Ventilator Co 1236 Eastern Av Malden 48 Mass
UNO-VENTURETTE Uno Ventilator Co 1236 Eastern Av Malden 48 Mass
UNXLD Yawkey-Bissell Hardwood Flooring Co White Lake Wis
UPSON ALL-WEATHER Upson Co 43 Upson Pt Lockport NY
UPSON KOLORPINS Upson Co 43 Upson Pt Lockport NY
UPSON KUVER-KRAK Upson Co 43 Upson Pt Lockport NY
UPSON STRIATED Upson Co 43 Upson Pt Lockport NY
UPSON STRONG-BILT Upson Co 43 Upson Pt Lockport NY
USE US Expansion Bolt Co State St & PRR York Pa
UTICA Utica Radiator Corp 2201 Dwyer Av Utica NY
UTILAIRE Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa
UTILCO Union Steel Chest Corp 54 Church Le Roy NY
UTILITY Arex Co 612 N Michigan Av Chicago 11 Ill
UTILITY Black & Decker Mfg Co 600 E Pennsylvania Av Towson 4 Mich
UTILITY Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY
UTIL-O-MATIC Crofoot Mfg Co 217 Evergreen Mount Prospect Ill

V

VACCINOL Vaccinol Sales Co 2487 Penn Memphis 9 Tenn
VACOL INVISIBLE Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
VACOL VENT Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky
VACU-BREAK SAFETY SWITCH Bulldog Electric Prods Co 7610 Joseph Campau Box 177 Detroit 32 Mich
VALSPAR Valentine & Co 11 E 36th New York 16 NY
VAMPCO Valley Metal Prods Co Bridge St Plainwell Mich
VANALOID Vogue Mfg Co 2311 Taylor Fort Wayne 6 Ind
VANCO CUPRAFACE Van Noorden (E) Co 100 Magazine Boston 19 Mass
VANCO PLEXIGLAS DOMELITE Van Noorden (E) Co 100 Magazine Boston 19 Mass
VANDY-CRAFT Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill
VANETTE Toledo Desk & Fixture Corp 1020 Ford Rd Maumee Ohio
VANITY Mansfield Sanitary Pottery Inc Perrysville Ohio
VARI-SPOT Curtis Lighting Inc 6135 W 65th Chicago 38 Ill
VARI-VAC Dunham (C A) Co 400 W Madison Chicago 6 Ill
VARIJET FLINT & WALLING MFG CO INC 95 Oak Kendallville Ind
VARLAR United Wallpaper Co Merchandise Mart Plaza Chicago 54 Ill
VARLAR STAINPROOF Varlar Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill
VATU American Rust Proof Co 302 Butler Brooklyn 17 NY
VELATONE Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
VEL-GLO Wetherill (Geo D) & Co Inc 113-115 Arch Philadelphia 6 Pa
VELITE Mobile Paint Mfg Co Inc Box 1686 Mobile Ala
VEL-KOTE Wetherill (Geo D) & Co Inc 113-115 Arch Philadelphia 6 Pa
VEL-LUSTRE Wetherill (Geo D) & Co Inc 113-115 Arch Philadelphia 6 Pa
VELOCITY POWER DRIVER Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa
VELVETEX Mosaic Tile Co 1949 Pershing Av Zanesville Ohio
VELVETONE Globe Paint Wks Inc 202 Market Williamsport Pa
VELV-O-CAP Crofoot Mfg Co 217 Evergreen Mount Prospect Ill
VEN-TROL Grand Rapids Hdwe Co 560 Eleventh NW Grand Rapids 2 Mich

Now ANY home can have that "contemporary" look!

Contemporary Combination storm and screen doors

with these Continental contemporary doors

Contemporary Screen Doors

Entrances take on that "contemporary look" when protected *and decorated* by one of these new Contemporary doors. Available both as combination doors with storm and screen inserts—and as permanently wired screen doors—they feature a unique fluted-panel design that offers exciting new possibilities for "personalized" color treatment.

As a combination storm and screen door the Contemporary is offered in three attractive insert styles including the beautiful protruding "picture frame" insert shown above. Storm sash and screen panels are designed for quick and easy changeability and require little storage space.

Send for the four-color brochure which describes in detail the delightful color combinations suggested by the Contemporary's design.

The Continental Contemporary screen door is permanently wired, and presents the same combination of Continental quality construction features as is found in all Contemporary doors: mortise and tenon construction; made of Ponderosa Pine, the wood of warmth, beauty and durability. There is no other screen door in its price range that can approach its beauty and utility.

A CONTEMPORARY STYLE FOR EVERY ENTRANCE —ANY TASTE

As an all-weather combination storm and screen door the Contemporary is also available with one-light flush insert (left) and with three-light flush insert (right).

Continental

products are manufactured by:

The Wabash Screen Door Co.—Minneapolis—Chicago—Memphis
Owosso Manufacturing Company — Owosso, Michigan
Philadelphia Screen Manufacturing Company—Philadelphia

and sold through **CONTINENTAL SCREEN COMPANY**
1323 BOOK BUILDING · DETROIT 26, MICHIGAN

VENI-FLEX Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex
VENI-SHADE Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex
VENKO Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ
VENKO Waterfilm Boilers Inc 36-40 New York Av Jersey City NJ
VENT-A-HOOD Vent-A-Hood Co 1907 Plantation Rd Dallas 19 Tex
VENT-AIR National Screen Co Madison Av Extended Suffolk Va
VENTLOCK Ventilite Corp 5556 Biscayne Blvd Miami 37 Fla
VEOS Porcelain Enamel Prods Corp Bay State Rd Rehoboth Mass
VER-A-SIL Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
VER-A-SPRAY Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
VERI-LUX Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
VERIPLY Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn
VERITHIN Eagle Pencil Co 703 E 13th New York 9 NY
VERMI-PERL Western Mineral Prods Co 1720 NE Madison Minneapolis Minn
VERMICULITE Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
VERNONTOWN Vernontown Mfg Co Inc 338 W Lincoln Av Mount Vernon NY
VERSATILE SAW Henniker Machine Co Henniker NH
VERSIBOND Ohio Rubber Co 102 Ben Hur Av Willoughby Ohio
VESTA Athens Stove Wks Inc Hicks St Athens Tenn
VIBRA-LOCK Williams Form Engr Corp 1501 Madison Av SE Grand Rapids Mich
VIBRO-GRAVER Burgess Vibrocrafters Inc Grayslake Ill
VIBRO-SPRAYER Burgess Vibrocrafters Inc Grayslake Ill
VIBRO-TOOL Burgess Vibrocrafters Inc Grayslake Ill
VICTOR Stanley (Wm W) Co Inc 401 Broadway New York 13 NY
VICTOR Victor Prods Corp 901 Pope Av Hagerstown Md
VICTOR Victor Saw Wks Inc 10 Cottage Pl Middletown NY
VICTORIA Boatwick-Goodell Co 50 Jefferson Norwalk Ohio
VICTORY Tubbs Cordage Co 104 Sansome San Francisco Cal
VIGORO Swift & Co Plant Food Div 4115 S Packers Chicago 9 Ill
VIKING Forsberg Mfg Co 125 Seaview Av Bridgeport 1 Conn
VIKING Viking Air Conditioning Corp 5601 Walworth Av Cleveland 2 Ohio
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VITA-VAR Vita-Var Corp 10 Commerce Ct Newark NJ
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VITRIFLEX Servicised Prods Corp 6051 W 65th Chicago 38 Ill
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VIXEN Heller Bros Co Heller Dr Newcomerstown Ohio
VLCHEK Vlchek Tool Co 3001 E 87th Cleveland 4 Ohio
VOGUE Vogue Mfg Co 2311 Taylor Fort Wayne 6 Ind
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VORCRETE Vorac Co 147 Meadow Rd Rutherford NJ
VORLAC Vorac Co 147 Meadow Rd Rutherford NJ
VORNADO Sutton (O A) Corp 1812 W Second Wichita Kan
VORNAMEL Vorac Co 147 Meadow Rd Rutherford NJ
VORSEAL Vorac Co 147 Meadow Rd Rutherford NJ
VUDOR Hough Shade Corp 1203 S Jackson Janesville Wis
VULCAN Vulcan Electric Co 88 Holten Danvers Mass
VULCAN Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass
VULCANITE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
VULCO Vulcan Metal Prods 2801 6th Av S Birmingham Ala

W

WABASH Wabash Screen Door Co 310 S Michigan Av Chicago 4 Ill
WACO SPEEDLOCK Waco Mfg Co 3565 Wooddale Av Minneapolis 61 Minn
WADCO WINDOWS Wadsworth Millwork Corp 121 W Walnut Wadsworth Ohio
WAGNER Wagner Electric Corp 6400 Plymouth Av St Louis 14 Mo
WAKCO Warren-Knight Co 136 N 12th Philadelphia 7 Pa
WALCO Walworth Co 60 E 42nd New York 17 NY
WALCREST Stamford Wall Paper Co Inc Taylor & Manin Stamford Conn
WALCREST WAL-PASTE Stamford Wall Paper Co Inc Taylor & Manin Stamford Conn
WALKOVER Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY
WALL Wall Rope Wks Inc 48 South St New York 5 NY
WALL ALERT Wall Rope Wks Inc 48 South St New York 5 NY
WAL-LITE Wallace Mfg Co 10th & Fayette North Kansas City Mo
WALL SATIN Benjamin Moore & Co 511 Canal New York 13 NY
WALL-TEX Columbus Coated Fabrics Corp 7th & Grant Av Columbus 16 Ohio
WALHIDE Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
WALKYD Chicago Bronze & Color Wks 2673 W Grand Av Chicago 12 Ill
WALLTAX Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill
WALLTUF United States Plywood Corp 55 W 44th New York 36 NY
WALLY Wall (P) Mfg Co Erie St Grove City Pa
WALNUT FARM BUILDINGS GBH-Way Homes Inc Walnut Ill
WALSEAL Walworth Co 60 E 42nd New York 17 NY
WALTON Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY
WALVET Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio
WALWORTH Walworth Co 60 E 42nd New York 17 NY
WAMPUM BRAND Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa
WANDA Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md
WARD LA FRANCE Ward La France Truck Corp Grand Central Av Elmira NY
WARDRODOOR Angel Novelty Co 340 Broad Fitchburg Mass
WARNER ACCURACY Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn
WASCO COP-R-TEX Wasco Flashing Co 87 Fawcett Cambridge Mass
WASCO FABRICOTE Wasco Flashing Co 87 Fawcett Cambridge Mass
WASCOLITE Wasco Flashing Co 87 Fawcett Cambridge Mass
WASHINGTON LINE Washington Steel Prods 1940 E 11th Tacoma 2 Wash
WASTE KING PULVERATOR Given Mfg Co 3301 Fruitland Av Los Angeles 58 Cal
WATAUGA BRAND Graybeal (C R) & Sons Box 198 Roan Mountain Tenn
WATER BOY Zierden Mfg Co 3815 S Kinnickinnic Av Milwaukee 7 Wis
WATERFILM Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ
WATERFILM Waterfilm Boilers Inc 36-40 New York Av Jersey City NJ
WATERFLEX Whitlock Cordage Co 46 South St New York 5 NY
WATERFOG Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass
WATER RINSABILE Wilson-Imperial Co 115 Chestnut Newark 5 NJ
WATER SPAR Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa
WATER-STOP American Sta-Dri Co 4019 38th Brentwood Md
WATLING Woodenware Prods Corp 122 N 7th St Louis 1 Mo
WAVE LINE Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
WAX KING Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
WAXMASTER Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY
WAXOFF Schalk Chemical Co 351 E Second Los Angeles 12 Cal
WAYLITE Waylite Co 105 W Madison Chicago 2 Ill
WAYNE Wayne Home Equipment Co Inc 801 Glasgow Av Fort Wayne 4 Ind
WEAR-KOTE Camp Co Inc 6958 S State Chicago 21 Ill
WEATH-R-SEAL WASHER Fabricated Prod Co Water St West Newton Pa
WEATHERLOK Johns-Manville 22 E 40th New York 16 NY
WEATHERMAKER Carrier Corp 300 S Geddes Syracuse 1 NY
WEATHERMAN Tamms Industries Inc 228 N LaSalle Chicago 1 Ill
WEATHERMASTER Denison Corp 1890 NE 146th North Miami 6 Fla
WEATHERMASTER Johns-Manville 22 E 40th New York 16 NY
WEATHER-MASTER Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
WEATHERPROOF Weatherproof Prods Corp Waldo Sta Box 8498 Kansas City 5 Mo
WEATHER-SEAL Weather-Seal Inc 24 Huston Barberton Ohio
WEATHER-SHIELD Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
WEATHERTITE Johns-Manville 22 E 40th New York 16 NY
WEATHERWOOD United States Gypsum Co 300 W Adams Chicago 6 Ill
WEBERWALL Weber Showcase & Fixture Co Inc 5700 Avalon Blvd Los Angeles 54 Cal
WEBRIB Webrib Steel Corp 120 Broadway New York 5 NY
WEBSTER BASEBOARD HEATING Warren-Webster & Co Camden NJ
WEDGE TIGHT Calder Mfg Co 630 N Prince Lancaster 12 Pa
WEISART Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WEISTEEL Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WEISWAY Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WEISWAY VITRECEPTOR Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind
WEL-BILT Huck & Gerhardt G & Luzerne Philadelphia 24 Pa
WEL-BILT Wel-Bilt Prods Co Box 95 Memphis 1 Tenn
WELBILT Welbilt Stove Co Inc 57-18 Flushing Av Maspeth 78 LI NY
WELD-BILT West Bend Equipment Corp 299 S Water West Bend Wis
WELDBORD United States Plywood Corp 55 W 44th New York 36 NY
WELD-TITE PRIMER Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn
WELDED FENCE Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn
WELDMASTER Lewis-Shepard Prods Inc 125 Walnut Watertown Mass
WELDTEX United States Plywood Corp 55 W 44th New York 36 NY
WELDWOOD United States Plywood Corp 55 W 44th New York 36 NY
WELSH Commercial Paste Co Buttles at Michigan Columbus 8 Ohio
WESCO Western Chain Co 1807 Belmont Av Chicago 13 Ill
WESGLAS Wessels Co 1625 E Euclid Av Detroit 11 Mich
WESIX Wesix Electric Heater Co 390 First San Francisco 5 Cal
WESSELS Wessels Co 1625 E Euclid Av Detroit 11 Mich
WEST WIND West Wind Corp 1800 Airport Way Seattle 4 Wash
WESTERN-HOLLY Western Stove Co Inc 8536 Hays Culver City Cal
WESTERNER Walker (TV) & Son Inc 217 N Lake Box 547 Burbank Cal
WESTERNER JR Walker (T V) & Son Inc 217 N Lake Box 547 Burbank Cal
WESTON Round (David) & Son Inc Box 883 Cleveland 22 Ohio
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WEYERHAEUSER 4-SQUARE Weyerhauser Sales Co First National Bank Bldg St Paul 1 Minn
WHALE Forsberg Mfg Co 125 Seaview Av Bridgeport 1 Conn
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WHIRLOUT Swartwout Co 18511 Euclid Av Cleveland 12 Ohio
WHITCO Whitney (Vincent) Co Box 335 Sausalito Cal
WHITE BEAR Gardner Wire Co 1325 S Cicero Av Chicago 50 Ill
WHITE CROSS National Stamping & Electric Wks 2215 Clark Av St Louis 3 Mo
WHITE GUAMBA Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich
WHITE-RODGERS White-Rodgers Elec Co 1209 Cass Av St Louis 6 Mo
WHITE ROSE York Wall Paper Co 750 Linden Av York Pa
WHITE SEAL Chicago Paints Inc 4500 W 14th Chicago 23 Ill
WHITE'S IMPROVED White (David) Co 315 W Court Milwaukee 12 Wis
WHITE-TAPES Evans & Co 400-416 Trumbull Elizabeth NJ
WHITING ADAMS Whiting Adams Co Inc 700 Harrison Av Boston 18 Mass
WHITNEY Whitney (Baxter D) & Son Inc Elm St Winchendon Mass
WHIZ SAWS Forsberg Mfg Co 125 Seaview Av Bridgeport 1 Conn
WIL-BOND Wilson-Imperial Co 115 Chesnut Newark 5 NJ
WILCO Wilson-Imperial Co 115 Chestnut Newark 5 NJ
WILDE Wilde Drop Forge & Tool Co 2942 Fairmount Av Kansas City 8 Mo

THE RUBEROID *Color-Styled* HOME

An Idea... geared to Ruberoid's decorator line of roofing and siding . . . designed to help you sell homes and home modernization with exterior color styling . . . tuned to today's market demands.

Ruberoid provides you with a tool to help you make the Color-Styled Home Idea practical . . . the Ruberoid Colorator . . . an easy-to-use selector that shows Ruberoid roofing and siding colors in pleasing combinations with suggested trim and accent colors.

Put the Color-Styled Home Idea to work. See your Ruberoid dealer for a Colorator demonstration and display samples of nationally advertised Ruberoid roofing and siding shingles in decorator colors . . .plus other products listed here. Or write The Ruberoid Co., 500 Fifth Avenue, New York 36, N. Y.

The RUBEROID Co.

Asphalt and Asbestos Building Materials

ROOFING

THICK BUTT SHINGLES—a quality asphalt shingle on a heavy base felt. Choice of decorator colors, blends and pastel shades.

TITE-ON SHINGLES—the famous Ruberoid interlocking wind-defying shingles, proved on over 750,000 roofs. In decorator colors.

ASBESTOS ROOF SHINGLES — Ruberoid Dutch Lap and Hexagonal asbestos shingles provide handsome, distinctive roofs in rich, permanent colors.

COLD PROCESS ROOFING—a simple, economical method of applying flat roofs without expensive melting kettles and equipment. No heating of materials is necessary.

BUILT-UP ROOFING—Ruberoid supplies all types of bonded built-up roofs for all conditions and offers complete specification data. Ruberoid can supply asphalt felts, tarred felts, asbestos felts, coal tar pitch, roofing asphalt and Special Roofing Bitumen for all types of built-up roofs.

ROLL ROOFING—a complete line of smooth-surfaced, mineral-surfaced and *dubl-coverage* roll roofing in all popular colors.

ROOF COATINGS AND PLASTIC CEMENTS—a complete line of roof coatings for repairing and prolonging the life of composition or metal roofs.

SIDING

COLOR-GRAINED ASBESTOS SIDING* — the modern, "shake"-textured fireproof sidewall material in two-tone decorator colors, with the revolutionary *Duroc* protective finish.

*Patent Nos. 2307733, 2307734, others pending.

ASPHALT ROLL SIDING—economical, easy-to-apply rolls in authentic brick and stone designs.

INSULATING SIDINGS—Ruberoid's Aristo Insulating Siding panels, in shake, brick or stone designs, are made for easy application over old sidewalls and for new construction. They insulate as they beautify.

BUILDING BOARD

STONEWALL ASBESTOS-CEMENT BOARD — a strong, rugged, fireproof, weather-proof, easy-to-work all-purpose building board in 4′ x 8′ gray sheets that never need paint.

PANELSTONE ASBESTOS BOARD — a de luxe building board with all the desirable qualities of Stonewall, plus light weight, smoother finish and greater flexibility.

CORRUGATED ASBESTOS SHEETS — these durable fireproof sheets offer economical industrial construction over skeleton framing, plus other decorative and utility uses.

BUILDING INSULATIONS

FIBERGLAS INSULATION—in roll blankets, batt blankets, utility batts, pouring wool and perimeter insulations. Ruberoid offers a complete line.

REFLECTIVE INSULATION — an economical aluminum insulation material that reflects 95% of radiant heat and forms an ideal vapor barrier.

OTHER BUILDING PRODUCTS

SHADOWEDGE**—a tapered asphalt undercoursing strip for use with asbestos siding. Provides extra weather protection and deep shadowlines.

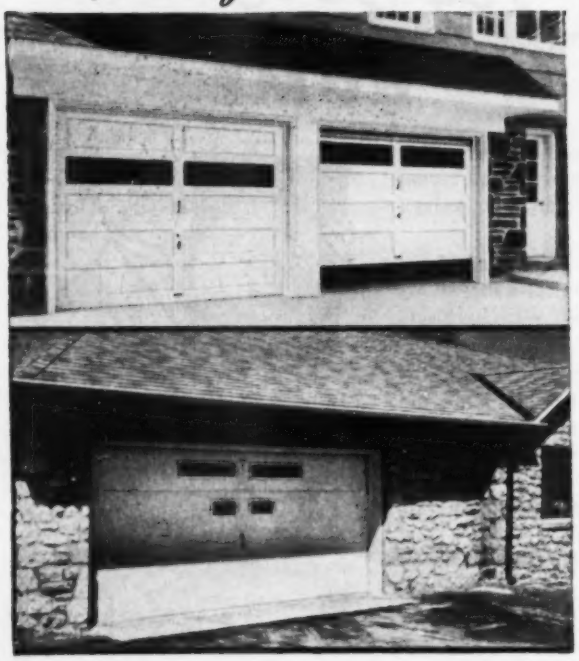
**Patent No. 2394379, others pending.

BUILDING PAPERS — Kraft waterproofing papers and vapor barriers in variety of weights and sizes.

ALUMINUM VAPOR BARRIER — a companion product to Ruberoid's Reflective Insulation — lighter in weight, lower in cost.

. . . and other products such as Asbestos Pipe Coverings, Asphalt Paint, etc. See your Ruberoid salesman for complete details.

More "SOLD" signs...with WEL-BILT *Overhead Operating* DOORS



SOLD

Beautiful, sturdy, economical, easy-lifting — these qualities of WEL-BILT Garage Doors make a strong appeal to prospective home buyers. Thus WEL-BILT adds a little *more* buy-appeal to the many fine features you've already planned for your For Sale homes.

But That's Only Half the Story! The rest of it makes *building news!* WEL-BILT residential garage doors are designed to save valuable space — always a *plus* factor in lowering building costs. It will pay you to send for detailed information.

Let Us Worry About Installation. WEL-BILT Overhead Garage Doors are delivered promptly at the site and *expertly installed by factory-trained erectors.* You gain time, and can look forward to faultless operation of every door. Customer good will always follows.

Get the Facts—Send for Catalog. Use the coupon to obtain a catalog. It is important reading for every builder interested in offering BIG home-dollar values. It's the story of why WEL-BILT is "all the name implies." More — it gives pages of evidence as to the profits from including this superior door in your plans.

For full data mail this coupon →

WEL-BILT *Overhead Operating* DOORS

HUCK-GERHARDT CO., INC.
G & Luzerne Sts., Philadelphia 24, Pa.

Send me a copy of your latest catalog illustrating and describing **WEL-BILT** Overhead Garage Doors. No obligation.

My Name _____

Address _____

City or Town _____

Zone _____ State _____

HUCK-GERHARDT CO., INC., G & Luzerne Sts., Phila. 24, Pa.

3 Ways TO MORE PROFITABLE FLOOR JOBS

HOLT NMPL12 FLOOR SANDER

with patented demountable cushion that's replaceable in minutes right on job—no long, costly delays when nails rip cushion. Designed and built to eliminate vibration and chatter, so you get smooth floors easily. Double, self-adjusting belts, sure-grip clamps, high-speed cutting keeps jobs rolling, enable you to sand more floor daily.

HOLT Rotary Edgers *for quick, easy sanding of edges, corners, stairs, closets, etc. Two-hand front and back controls permit fast starts and stops, improve control on close work.*

HOLT Floor Machines *put a sheen on floors that wins friends and extra business. Use for waxing, polishing, scrubbing, rug shampooing, steel wooling.*

Take the HOLT way to more profitable floor jobs—mail coupon TODAY.

HOLT MANUFACTURING COMPANY

Better floor machines for more than 25 years 12

ROOM B-4, 669 - 20th ST. • OAKLAND 12, CALIF.

HOLT MFG. CO.
Room B-4, 669 - 20th St., Oakland 12, Calif.
Please send me folders describing HOLT's exclusive, new features.

NAME _____ POSITION _____

FIRM _____

ADDRESS _____

WILL-BURT Will-Burt Co 12 Ray Orrville Ohio
WM PENN Fitler (Edwin H) Co Devereau & Milnor Philadelphia 24 Pa
WILMAC Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill
WILMAC Wilmac Metal Prods Co Inc 2632 N Central Av Chicago 39 Ill
WILMINGTON Wilmington Casting Co 258 Charles Wilmington Ohio
WILSON Media Machine Wks Inc 620 Park Av Media Pa
WILSON Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa
WILWEAR Turner & Seymour Mfg Co Lawton St Torrington Conn
WINDALUME Windalume Corp Route 46 Kenvil NJ
WIN-DOR Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill
WINDMASTER Acme Equipment Co 213 E Broadway Muskogee Okla
WINDOW CLEEN Standard Industrial Prods Inc 1500 Park Evansville 4 Ind
WINDOW WONDER TOOL Rene-Craft Prods 406 Linden Av Wilmette Ill
WINDOWALLS Andersen Corp Bayport Minn
WINGFOOT Goodyear Tire & Rubber Co 1485 E Archwood Av Akron 16 Ohio
WINONA TRAVERTINE Biesanz Stone Co Winona Minn
WINSLOW Warren-Knight Co 136 N 12th Philadelphia 7 Pa
WIN-TRIM Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn
WIREDUCT Wiremold Co Station A Hartford 10 Conn
WIREMOLD Wiremold Co Station A Hartford 10 Conn
WISCO TRIPLETRACK Wisco Aluminum Corp 3945 "A" Detroit Mich
WISCONSIN KNIGHT Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich
WISCONSIN KNIGHT Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich
WISS Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ
WISSOTA Wissota Mfg Co 1301 S 3rd Minneapolis Minn
WITHERBY Winsted Edge Tool Wks Winsted Conn
WITT Witt Cornice Co 2118 Winchell Av Cincinnati 14 Ohio
WITTE Witte Engine Wks Oil Well Supply Div US Steel Corp 1600 Oakland Av Kansas City 26 Mo
WIZARD Boyle-Midway Inc 22 E 40th New York 16 NY
WIZARD Woodenware Prods Corp 122 N 7th St Louis 1 Mo
WOLMANIZED American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill
WONDAIRE Cox Mfg Co N Walnut Ridgeville Ind
WONDER Construction Machinery Cos 420 Vinton Waterloo Iowa
WONDER-FOLD Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich
WONDER-FOLD Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich
WONDER-PASTE Wilson-Imperial Co 115 Chestnut Newark 5 NJ
WOOD-LOOM DeJong Inc 34-23 36th Long Island City 1 NY
WOOD-MOSAIC Parkay Inc 5000 Crittenden Dr Louisville 9 Ky
WOOD-NU-STAIN Minnesota Paints Inc 1101 Third St S Minneapolis 15 Minn
WOOD-REM Speco Inc 7308 Associate Av Cleveland 9 Ohio
WOOD-VAR Martin-Seymour Co 2520 S Quarry Chicago 8 Ill
WOODALL GLIDE-ALL Woodall Industries Inc 3500 Oakton Skokie Ill
WOODCO General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ
WOODFORD Woodford Hydrant Co 1626 Delaware Av Des Moines Iowa
WOODSULITE Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill
WOODTEX Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa
WOODTOX-WOODFIX Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo
WOOSTER SEAL-KOTE Interchemical Corp Wooster Unit Wooster Ohio
WORSHAM Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal
WRAP-DRI Thilmany Pulp & Paper Co Thilmany Rd Kaukauna Wis
WRIGHT Wright Hoist Div American Chain & Cable Co York Pa
WRIGHTEX Wright Mfg Co Box 6567 Houston 5 Tex
WRIGHTFLOR Wright Mfg Co Box 6567 Houston 5 Tex
WRIGHT ON TOP Wright Mfg Co Box 6567 Houston 5 Tex
WRIGHT SAFEWAY Wright Hoist Div American Chain & Cable Co York Pa
WYR-O-GLASS Flex-O-Glass 1100 N Cicero Chicago 51 Ill

X

X-CELL-ALL National Chemical & Mfg Co 3617 S May Chicago 9 Ill
X-DUCT National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa
X-DUCT JR National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa
X-IT Sullivan Co 212 E Trigg Av Memphis Tenn
X-PANDOSEAL X-Pando Corp 43-15 36th Long Island City 1 NY
XTRALITE Marshalltown Trowel Co 112 S Eighth Av Marshalltown Iowa

Y

Y-A Yates-American Machine Co 701 Fourth Beloit Wis
YALE Yale & Towne Mfg Co Roosevelt Blvd Philadelphia 15 Pa
YANKEE North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa
YANKEE FIBER Color-Craft Prods Inc 5035 Bellevue Detroit 11 Mich
YANKEE HILL Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln Neb
YELLOW END St Paul Corrugating Co S End Wabasha St Bridge St Paul 1 Minn
YELLOW-FLASH Justrite Mfg Co 2061 N Southport Av Chicago 14 Ill
YELLOW STRAND Broderick & Bascom Rope Co 4203 Union Blvd St Louis 15 Mo
YORKBEST Heilig Bros Co Inc 24 W North York Pa
YORKTOWNE KITCHENS Colonial Prods Co Broad & Park Dallastown Pa
YOUNGSTOWN KITCHENS Mullins Mfg Corp University St Warren Ohio

Z

Z-CRETE Zonolite Co 135 S LaSalle Chicago 3 Ill
ZEBRA STRIPE Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ
ZEEN-X United States Gypsum Co 300 W Adams Chicago 6 Ill
ZEOTONE Calgon Inc 323 Fourth Av Pittsburgh Pa
ZEPHAIR Hunter Fan & Ventilating Co 400 S Front Memphis 2 Tenn
ZEPHYR Flat Metal Mfg Co 9301 Belmont Av Franklin Park Ill
ZEPHYRS Creo-Dipt Co Inc 986 Oliver North Tonawanda NY
ZERO Johns-Manville 22 E 40th New York 16 NY
ZERO-FLOW Wilson Refrigeration Inc Glenwood Av Smyrna Del
ZEROLITE Johns-Manville 22 E 40th New York 16 NY
ZEROPAK McQuay Inc 1600 Broadway NE Minneapolis 13 Minn
ZERO-SAFE Wilson Refrigeration Inc Glenwood Av Smyrna Del
ZERO-SPRAY Wilson Refrigeration Inc Glenwood Av Smyrna Del
ZERO-TANK Wilson Refrigeration Inc Glenwood Av Smyrna Del
ZERO-VAULT Wilson Refrigeration Inc Glenwood Av Smyrna Del
ZETLAN Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich
ZINCLAD Maze (W H) Co Church & The River Peru Ill
ZIP-LIFT Harnischfeger Corp 4400 W National Av Milwaukee 46 Wis
ZONING WEATHERMAKER Carrier Corp 300 S Geddes Syracuse 1 NY
ZONOLITE Texas Vermiculite Co 303 Brazos Austin Tex
ZONOLITE Vermiculite Prods Inc 515 Madison Kansas City Mo
ZONOLITE Western Mineral Prods Co 1720 NE Madison Minneapolis Minn
ZONOLITE Zonolite Co 135 S LaSalle Chicago 3 Ill
ZOURITE Kawneer Co 1105 N Front Niles Mich
ZURN Zurn (J A) Mfg Co Erie Pa

SEE SECTIONS

1—Products and Equipment Manufacturers—Page 261.

2—Brand Names—Page 497.

3—Where to Buy it Locally—Page 535.

CONNOR
forest products since 1872
"LAYTITE" maple birch oak FLOORING
Block, Continuous or Regular Strip & Slats
Mixed cars or trucks
MFMA graded and trade marked
Our Specialty—"School Gym" Grade
CONNOR LUMBER & LAND CO.
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Phone No. 2-2091

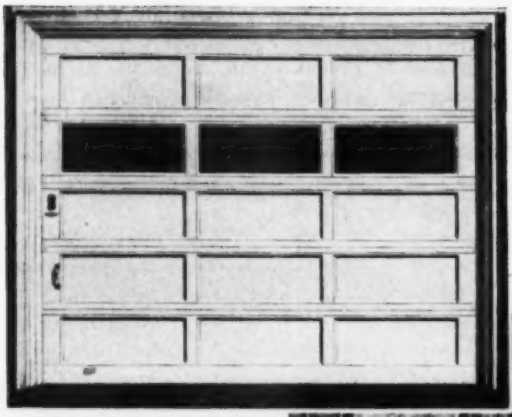
NEW CATALOG

How to Get the Most Value in PORTABLE ELECTRIC TOOLS

NOW, for the first time, a complete catalog-showing of Porter-Cable Fine Electric Tools for building, woodworking and maintenance uses. Twenty-eight interesting pages, more than 200 illustrations, crammed with facts, specifications, suggestions, ideas. Shows what to look for in different tools and how to get the most for your money . . . plus helpful ways to save time and labor on hundreds of jobs. Every builder, craftsman, journeyman should have a copy on hand when the need arises, for help in selecting the most useful, durable and economical tools. Get your copy now. By mail for only 10c to cover postage and handling.

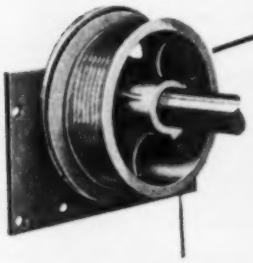
VALUABLE FACTS *for only* 10¢

PORTER-CABLE MACHINE CO., 2744 N. Salina St., Syracuse 8, N. Y.

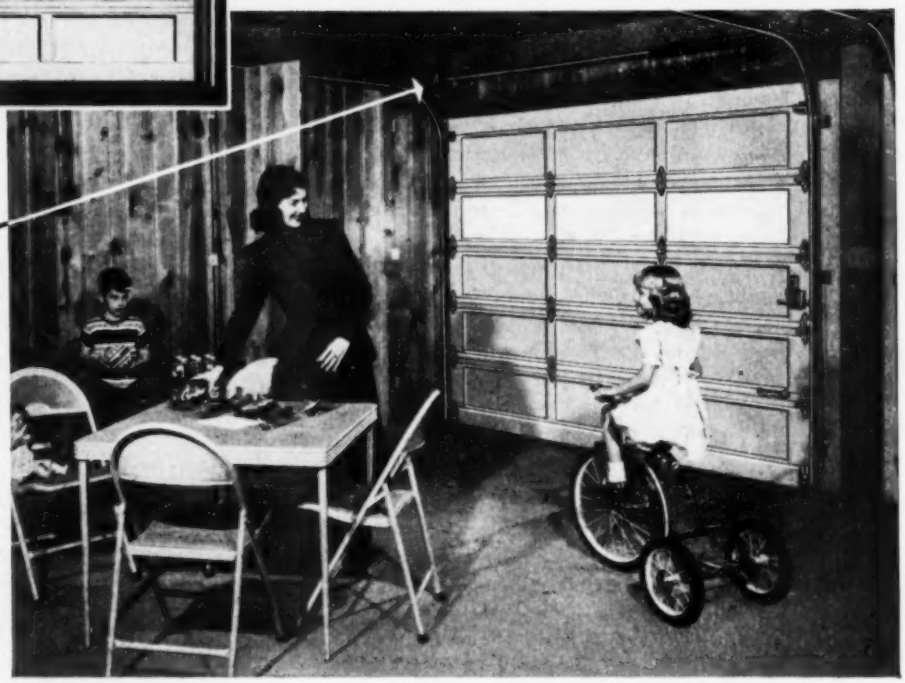


STANDARD SIZE
9 ft. wide x 6 ft. 8 in. high

The **Perfect Door** *for that* "Extra Room"



NEW TAPERED DRUM INSURES PERFECT BALANCE IN ANY POSITION!
This drum does for your garage door what power steering does for your car.



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A well-planned garage can sell the house! Garage space is all-purpose space, invaluable to the small-home buyer:

- Extra Storage
- Recreation Area
- Car Protection
- Handyman's Workroom
- Indoor Picnic Ground
- Home Freezer Space

Electric Operation • Electronically Controlled From Your Car

GIVE EVERY HOME THESE PLUS VALUES:

Strongly Built! With sixteen hinges and four corner supports, it *floats* on *twenty* points of strength.

Weathertight! MIRACLE WEDGE* weathertight closure conserves heat, keeps out rain, snow, wind and ice.

Beautiful! Stock or special designs blend with any style of construction.

Easy to Open and Close! Because of strong construction, perfect balance and expert installation.

*TRADE MARK

NATION-WIDE
Sales
Installation
Service
Look for this trade mark in your telephone directory.

THE "OVERHEAD DOOR"
TRADE MARK

RESIDENTIAL • COMMERCIAL • INDUSTRIAL

OVERHEAD DOOR CORPORATION, Hartford City, Ind.
Manufacturing Division

HILLSIDE, N. J. CORTLAND, N. Y. DALLAS, TEX.
NASHUA, N. H. LEWISTOWN, PA. OKLAHOMA CITY, OKLA.
PORTLAND, ORE. GLENDALE, CAL.

A New Service for Builders

THE 1954 *American Builder* Directory, in the following section, presents a new service to readers—detailed listings of manufacturers' local distributors. This guide provides a quick way to find the local nearest outlet of the manufacturer whose product is desired. This listing is alphabetical by manufacturers. Cities are listed alphabetically under each manufacturer, with each city followed by the local dealer's names. Look for the name of yours or nearby town.

Where wholesalers, sales representatives, etc., are listed instead of dealers, this is noted in the headings.

SECTION III

WHERE TO BUY IT LOCALLY

A Directory of Manufacturers' Local Distributors

A & F TILEBOARD CO.
ALEXANDRIA, LA.
Wholesale Distributors

The following wholesale distributors service established retail lumber and building material dealers from warehouse stocks.

Atlanta, Ga.
Randall Brothers, Inc.
Austin, Tex.
Calcasieu Lumber Co.
Baton Rouge, La.
United Sash & Door Co.
Beaumont, Tex.
Detering Co.
Birmingham, Ala.
Birmingham Sash & Door Co.
Church Point, La.
Evangeline Brokerage Co.
Corpus Christi, Tex.
McCord Lumber Co.
Grenada, Miss.
J. H. Oliver & Co.
Houston, Tex.
Maurice Angly Lumber Co.; Detering Co.
Jackson, Miss.
Deep South Sash & Door Co.; Modern Appliance & Supply Co.
Jonesboro, Ark.
Builders Material Co.
Lake Charles, La.
Gulf Sash & Door Co.
Little Rock, Ark.
Arkmo Lumber Co.
Memphis, Tenn.
Memphis Sash & Door Co.
Mobile, Ala.
Smith Kelly Supply Co.
New Orleans, La.
Deep South Sash & Door Co.; Gulf States Plywood Co.; International Trade Mart (export only); Modern Appliance & Supply Co.
Savannah, Ga.
Dixie Plywood Co., Inc.

ALL-FLEXALUM
Blinds —
made by the following list of manufacturers throughout the country:

Albany, Ga.
Albany Wood Prods. Co.
Allentown, Pa.
M. C. Weeks
Amarillo, Tex.
Amarillo Venetian Blind Co.
Arcadia, Cal.
Colonial Blind Corp.
Ardmore, Okla.
Ardmore Venetian Blind Mfg. Co.
Atlanta, Ga.
ABC Venetian Blind Co.; Atlanta Venetian Blind
Atlanta, Iowa
Majestic Venetian Blind
Augusta, Ga.
Coffey Aluminum Bldg. Prods. Co.
Austin, Tex.
Dill's Venetian Blind Co.
Bakersfield, Cal.
Dawn Venetian Blind Co.
Baltimore, Md.
Globe Venetian Blind
Baton Rouge, La.
McInnis & Gray Venetian Blind Co.
Beaumont, Tex.
McInnis Blind Co.
Billings, Mont.
Jenkins Venetian Blind
Birmingham, Ala.
J. F. Day Screen & Weatherstrip Co.
Boston, Mass.
Rex Venetian Blind Co.
Vancouver, B. C., Canada
Vogue Venetian Blind Co.
Buffalo, N. Y.
Sunshade Venetian Blind Corp.
Charlotte, N. C.
Piedmont Industries Co.
Chattanooga, Tenn.
Chattanooga Venetian Blind Co.
Chicago, Ill.
Acme Venetian Blind Co., Phil Kayman & Co.; Sterling Venetian Blind Mfg Co.
Cincinnati, Ohio
Duracraft Products Inc.
Cleveland, Ohio
Cleveland Venetian Blind Inc.; Perfection Venetian Blind Co.
Clovis, N. M.
Motts Venetian Blind Co.
Collegeville, Pa.
M. C. Weeks
Colorado Springs, Colo.
Tilt-Rite Venetian Blind Co.
Columbia, S. C.
Southern Venetian Blind Co.
Columbus, Ohio
Columbus Venetian Blind Mfg. Co.
Compton, Cal.
Gold Seal Venetian Blind Co.
Corpus Christi, Tex.
Omaha Venetian Blind Co.
Culver City, Cal.
Craftsman Venetian Blind Co.
Dallas, Tex.
Sam A. Wing Co.
Davenport, Iowa
Belle Blind Co.
Denver, Colo.
Hollywood Venetian Blind Co.; Weiss Venetian Blind Co.
Des Moines, Iowa
Burch Mfg. Co.
Detroit, Mich.
Porter Venetian Blind Inc.; Lion Venetian Blind Co.
Dunbar, W. Va.
Frank's Venetian Blind Co.
Durham, N. C.
Shaw's Venetian Blinds
East Paterson, N. J.
Jencraft Mfg. Co.
El Paso, Tex.
Southwestern Venetian Blind Co.
Eugene, Ore.
Sunblend Venetian Blind Co.
Eureka, Cal.
Ballinger V. B. Co.
Everett, Wash.
Wellworth Venetian Blind Co.
Fort Dodge, Iowa
Burch Mfg. Co.
Fort Worth, Tex.
Apco Blind Co
Greenville, Miss.
Louis T. Garrett Co.
Harlingen, Tex.
Harlingen Venetian Blind Co.
Harrisburg, Pa.
Southern Venetian Blind Co.
Hawthorne, Cal.
Abalone Mfg. Co.
Hilo, Hawaii
Wm. J. Kimi Ltd.
Honolulu, Hawaii
Artistic Venetian & Bamboo Blind Co.; Honolulu V.B. Co.; Island V.B Co.
Hot Springs, Ark.
Thornton Venetian Blind Mfg. Co.
Houston, Tex.
DeLuxe Venetian Blind Co.; Lee Venetian Blind Co.
Indianapolis, Ind.
J. H. Cox Mfg. Co.
Jackson, Miss.
Ace Venetian Blind Co.; Dixie Venetian Blind Co.
Jacksonville, Fla
Thompson Shade & Venetian Blind Co.
Kapaa, Kauai, Hawaii
Hawaii V. B. Mfg. Co.
Knoxville, Tenn.
Venetian Blind Wholesalers
Lake Charles, La.
McInnis & Gray Blind Co.
La Mesa, Cal.
Bal's Venetian Blind Co.
Lawton, Okla.
Lawton Venetian Blind Mfg. Co.
Little Rock, Ark.
Little Rock Tent & Awning Co.
Long Beach, Cal.
Del Mar Venetian Blind Co.; Modern Venetian Blind Co.; Southern Venetian Blind Co.
Long Island, N. Y.
ABJ Venetian Blind Co.
Los Angeles, Cal.
Elkeles Venetian Blind Co.; Los Angeles Venetian Blind Co.
Lubbock, Tex.
O'Hair Mfg. Co.
Lufkin, Tex.
Ramsey & Son Venetian Blind Factory
Macon, Ga.
The Ability Co.
Manchester, N. H.
Rex Venetian Blind Co.
Memphis, Tenn.
Williams Shade & Awning Co.
Miami, Fla.
Sistrunk Inc.
Milwaukee, Wis.
PerMex Prods. Co.
Minneapolis, Minn.
Acme Venetian Blind Mfg. Co.
Monroe, La.
Smith Venetian Blind Co.
Montreal, Que. Canada
Connor Venetian Blinds
Nashville, Tenn.
Nashville Tent & Awning Co.
New Britain, Conn.
Berkshire Inc.; Rex Venetian Blind Co.
New Orleans, La.
C. Bel for Awnings; Foster Co.
New York City, N. Y
Also Venetian Blind Co.; Handy Venetian Blind Co.; Sterling Venetian Blind Co.
Odessa, Tex.
Odessa Venetian Blind Mfg. Co.
Oklahoma City, Okla.
Kingco Inc.
Orange, Tex.
Marrow Home Supply
Ottawa, Ont., Canada
Connor Venetian Blinds
Pasadena, Cal.
Associated Mfg. Co.
Pawtucket, R. I.
Rex Venetian Blind Co.
Pennsauken (Camden), N. J.
Sunbeam Venetian Blind Co.
Pensacola, Fla.
Tate's Venetian Blind Service Co.
Petaluma, Cal.
Walter Knight
Philadelphia, Pa.
Cedar Craft Venetian Blind Mfg. Co.; Craft Bilt Venetian Blind Co.; Lee Venetian Blind Co.; Onyx Venetian Blind Co.
Pleasantville, N. J.
Seashore Venetian Blind Co.
Port Arthur, Tex.
McInnis & Gray
Port Dover, Ont., Canada
Port Dover Venetian Blinds
Portland, Ore.
Al Jensen (Linoleum & Venetian Blind); Monarch Sales Co.
Reading, Pa.
M. C. Weeks
Redwood City, Cal.
Currie Mfg. Co.
Reno, Nev.
Quimby's Reno Awning & Blind Factory
Richmond, Va.
Council Mfg. Co.
Riverside, Cal.
Best Bilt Venetian Blind Co.
Roanoke, Va.
Rusco Window Co. of Roanoke
Rochester, N. Y.
Charles A. Norton Co.
Sacramento, Cal.
San Stop & Wyman Fabrics
St. Louis, Mo.
American Venetian Blind Mfg. Co.; Royal Venetian Blind Mfg. Co.; Stile-Craft Mfrs. Inc.
St. Petersburg Beach, Fla.
United Venetian Blind Co.
Salt Lake City, Utah
Judkins Co.
San Angelo, Tex.
Kettler V. B. Co.
San Antonio, Tex.
O'Kreet Floor Covering Co.
San Bruno, Cal.
Sunmaster Prods. Co.
San Francisco, Cal.
Marina Venetian Blind Co.; El Rey V. B. Co.
San Jose, Cal.
LaVole Venetian Blind Mfg Co.
San Pablo, Cal.
Western Interiors
Santa Ana, Cal.
Rite-Lite Venetian Blind Co.
Santa Barbara, Cal.
Pacific Venetian Blind Co.
Seattle, Wash.
Nicholson's Venetian Blinds
Shreveport, La.
Hodnett Blind Co.
Spokane, Wash.
Lite Time Venetian Blind Co.
Stockton, Cal.
Sousa's V. B. Service
Tampa, Fla.
Duchess Venetian Blind Co.; Todd's Venetian Blinds
Toledo, Ohio
Art Venetian Blind Service
Toronto, Ont., Canada
Met-Wo Industries Ltd.
Tulsa, Okla.
Kelly Mfg. Co.; Agee Corp.
Utica, N. Y.
Mohawk Venetian Blind Co.
Van Nuys, Cal.
Capitol Venetian Blind Co.
Wailuku, Maui, Hawaii
Mizuha Venetian Blind Mfg. Co
Washington, D. C.
The Shade Shop
Watervliet (Albany), N.Y.
Hooker Venetian Blind Co.
West Palm Beach, Fla.
Modern Venetian Blind Co.
Wichita, Kans.
Modern Venetian Blind Co.
Wichita Falls, Tex.
A. & E. Venetian Blind Co.
Wilkes Barre, Pa.
Standard Venetian Blind Co.
Wilmington, Del.
M. C Weeks
Winston Salem, N. C.
Dize Awning & Tent Co.
York, Pa. M. C. Weeks

AMERICAN BAMBOO CORP.
JAMAICA, N. Y.

Boston, Mass.
Austin & Eddy, Inc.
Haddon Heights, N. J.
A. R. Henricks
Hamilton, Ont., Canada
Coast To Coast Agency & Sales Ltd.
Indianapolis, Ind.
Indiana Distributing Co.
Jacksonville, Fla.
Southern Supply Distributors
Los Angeles, Cal.
Burt W. Dreyer Co.
Minneapolis, Minn.
Southwest Builders Inc.

AMERICAN SCREEN PRODUCTS CO.
MIAMI, FLA.

Atlanta, Ga.
Walter S. Johnson & Sons
Bay Village, Ohio
Earle D. Burson, Jr.
Chicago, Ill.
Dorrie Sales Co.
Columbus, Ohio
J. Stanley McKee
Dallas, Tex.
Paul Bowen
Denver, Colo.
Roy L. Rogers
El Monte, Cal.
Calmetco
Honolulu, Hawaii
Hal Styles; Sales Engineers & Associates
Miami, Fla.
Joseph F. Coury
Oklahoma City, Okla.
Tom P. Gibb
Plymouth, Ind.
Plymouth Metal Products
San Juan, Puerto Rico
R. Ruiz Cestero
Seattle, Wash.
R. R. Cunningham, Inc.
Taunton, Mass.
Van A. Waldron
Toronto, Ontario, Canada
Geo. S. Hall & Co.
Upper Darby, Pa.
C. W. Pitt Mfrs.
Vancouver, B. C., Canada
A. Simpson Sales Co.
West Orange, N. J.
Herlo Co.

AMERICAN STA-DRI CO.
BRENTWOOD, MD.

Albany, N. Y.
Wholesale Service Supply Corp.
Atlanta, Ga.
Pittsburgh Plate Glass Co.; Randall Brothers
Baltimore, Md.
The American Sta-Dri Co.
Baton Rouge, La.
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Chicago, Ill.
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Snows Paint & Glass Co.
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Glidden Co.
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Read & Co.
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Frederick Trading
Grand Rapids, Mich.
Grand Rapids Supply
Harrisonburg, Va.
Valley Blox
Houston, Tex.
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Noncraft Co.
Nashville, Tenn.
L & S Corp.; Pitts Plate Glass Co.
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New Orleans, La.
Harrison Paint Co.
Norfolk, Va.
Sta-Dri Company of Va.
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Savannah, Ga.
Pittsburgh Plate Glass Co.
Sheffield, Ala.
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Smithfield, N. C.
Carolina Sta-Dri Distributors
Syracuse, N. Y.
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Andersen Window Units are available to established lumber and millwork dealers from the warehouse stocks of the following wholesale distributors

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Allentown, Pa.
Robbins Door & Sash Co.
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Amarillo Sash & Door Co.; United Sash & Door Co.
Ansonia, Conn.
Cleary Millwork Co. Inc.
Arlington, Va.
Morgan Millwork Co.
Austin, Tex.
Davidson Sash & Door Co.
Baltimore, Md.
Radford & Sanders, Inc.
Bethlehem, Pa.
Reeb Millwork Corp.
Bethpage, L. I., N. Y.
Sturtevant Millwork & Lumber Corp.
Billings, Mont.
Building Service, Inc.
Birmingham, Ala.
Birmingham Sash & Door Co.
Bismarck, N. D.
Bardwell-Robinson Co.; Builders Supply Co.
Boston, Mass.
Brockway-Smith-Haigh-Lovell Co.
Buffalo, N. Y.
Iroquois Door Co.; The Whitmer-Jackson Co. Inc.
Cedar Rapids, Iowa
Williams & Hunting Co.
Lake Charles, La.
Davidson Sash & Door
Lancaster, Pa.
J. R. Quigley Co.
Lansing, Mich.
Grand Rapids Sash & Door Co.
Lexington, Ky.
Combs Lumber Co.
Louisville, Ky.
Byron Sash & Door Co.; Huttig Sash & Door Co.
Lubbock Sash & Door Co.
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COMPLETE **WOOD** WINDOW UNITS

- **FLEXIVENT WINDOW**
  The newest WINDOWALL — amazingly flexible, high in quality, low in cost!
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  Outswinging casement for every need, engineered for efficient service.
- **PRESSURE SEAL WINDOW**
  Complete double hung unit with removable sash and storm-screen combination.
- **GLIDING WINDOW**
  Sash glide open from side to side, instantly removable for easy cleaning.

Andersen WINDOWALLS are available through established lumber and millwork dealers from warehouse stocks of the listed distributors, including the West Coast area.

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Acme Sash & Door Co.; Cincinnati Sash & Door Co.
Cleveland, Ohio
The Whitmer-Jackson Co. Inc.
Columbus, Ohio
Huttig Sash & Door Co.
Cressona, Pa.
J. R. Quigley Co.
Dallas, Tex.
Huttig Sash & Door Co.
Dayton, Ohio
Dayton Sash & Door Co.; Ohio City Sash & Door Co.
Denver, Colo.
The Denver Reserve Supply Co.
Detroit, Mich.
Kimball & Russell, Inc.
Duluth, Minn.
The Radford Co.; Scott-Graff Co.
Fargo, N. D.
Bardwell-Robinson Co.
Flint, Mich.
Flint Sash & Door Co. Inc.
Frackville, Pa.
Robbins Door & Sash Co.
Gloucester City, N. J.
J. R. Quigley Co.
Goshen, Ind.
Goshen Sash & Door Co.
Grand Rapids, Mich.
Grand Rapids Sash & Door Co.
Great Falls, Mont.
Building Service, Inc.
Harrisburg, Pa.
J. R. Quigley Co.; Radford & Sanders, Inc.
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Houston Sash & Door Co.
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Huttig Sash & Door Co.
Newark, N. J.
Whittier Lumber & Millwork Co.
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New Orleans, La.
New Orleans Sash & Door Co.
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Mill Built Distributors, Inc.
Omaha, Neb. Dishrow & Co.
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Ozone Park, L. I., N. Y.
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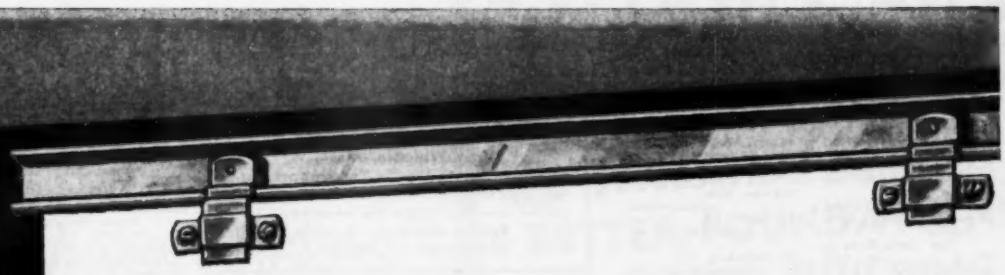
Continued on Page 538



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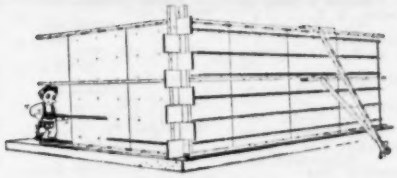

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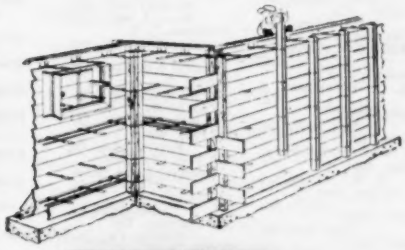

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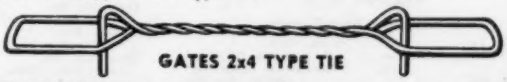

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Patent No. 2,303,825
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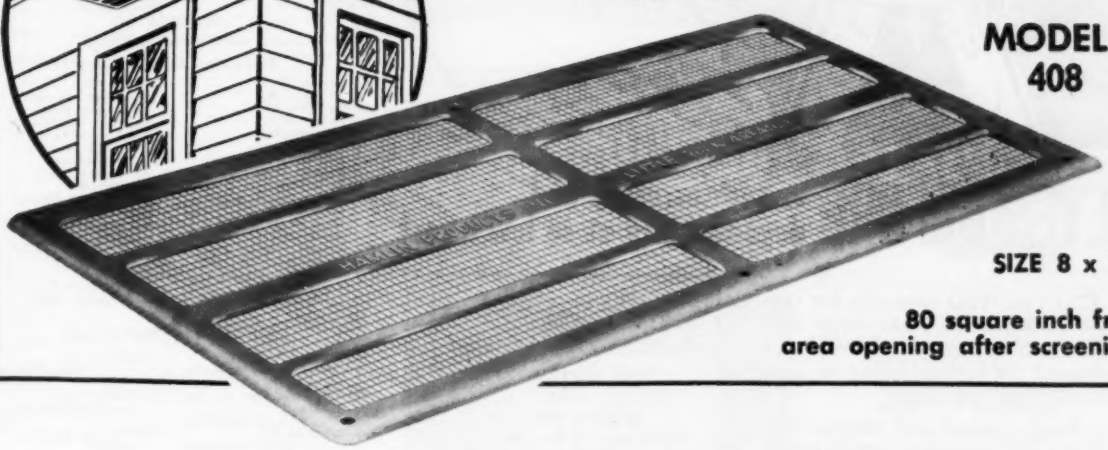

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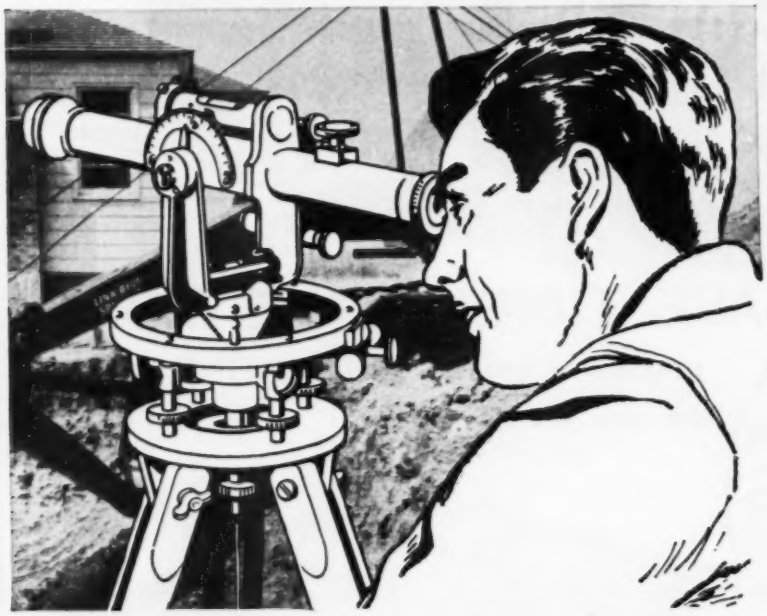

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Weighs only 13 lbs. Equipped with plumb bob, finished box, hinged leg tripod and sectional 8½' rod with target.

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Fisher-Stinson Hdwe. Co.
Parkersburg W. Va.
Wholesale Distributors
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Gessenden Hall
Phoenix, Ariz.
Baker-Thomas Co.
Pine Brook, N. J.
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Pittsburgh, Pa.
Pittsburgh Plywood & Door Co.
Portland, Ore.
Wanke Panel Co.
Providence, R. I.
Hastings & Co., Inc.
Quebec City, Que., Canada
O. Chalifour Inc.
Richmond, Va.
Diamond Hill Plywood Co.
Sacramento, Cal.
Western Asbestos Supply Co.
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St. Louis, Mo.
Veneers, Inc.
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Pinellas Lumber Co.
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J. B. Tile Co.
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Colotyle Tyle-Bord, Inc.
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A. W. Hastings & Co., Inc.
South Bend, Ind.
Great Lakes Distributing Corp.
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Eastern Plywood & Door Co., Inc.
Tampa, Fla.
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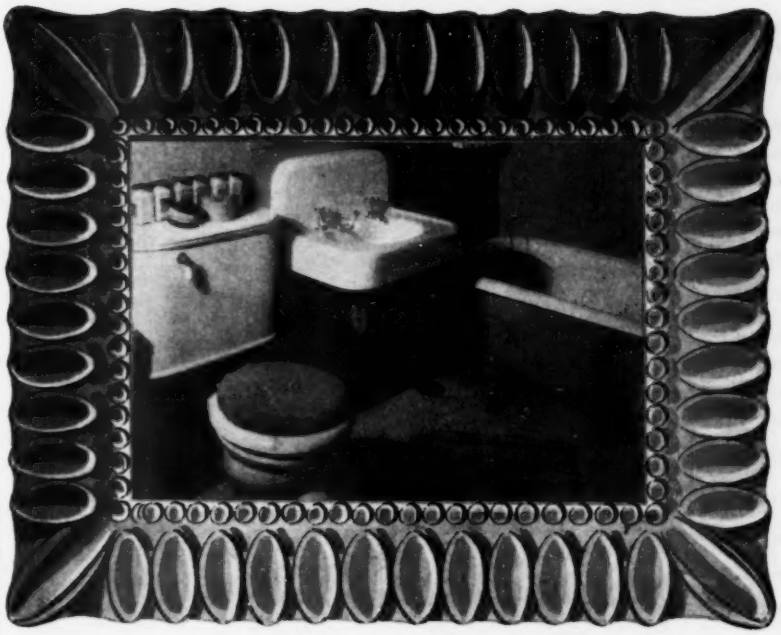

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You can step right up to those profit-making bathroom remodeling jobs because only you can give Mr. and Mrs. Home-Owner what they want:

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MODERN FIXTURES

How? With FIAT "packaged" Showers. That's because it's so easy to plan a really modern, convenient bathroom with FIAT. Requiring but a minimum of floor space, they "fit" into a variety of plans . . . offer more overall room . . . give the wanted convenience of shower bathing. And, this modern, "packaged" bathroom fixture is so easy to install . . . the whole job can be completed in less than a morning's time.

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Scranton Bldg. Block Co.
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DOUBLE-HUNG • SLIDING • AWNING
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Freeport, N. Y.
Skanton Aluminum Corp.
Great Falls, Mont.
Building Service, Inc.
Kansas City, Kan.
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Milford, Conn.
Aluminum City, Inc.
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General Electric Supply Co.
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General Electric Supply Co.
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Denver, Colo.
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Detroit, Mich.
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Crescent Electric Supply Co.
Fargo, N. D.
Dakota Electric Supply Co.
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General Electric Supply Co.
Mankato, Minn.
Southern Minnesota Supply Co.
Memphis, Tenn.
General Electric Supply Co.
Milwaukee, Wis.
Major Appliances, Inc.
Nashville, Tenn.
General Electric Supply Co.
New Orleans, La.
General Electric Supply Co.
New York, N. Y.
General Electric Appliances Co.
Oklahoma City, Okla.
General Electric Supply Co.
Omaha, Neb.
General Electric Supply Co.
Philadelphia, Pa.
General Electric Appliances Co.
Phoenix, Ariz.
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General Electric Appliances Co.
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Portland, Ore.
General Electric Supply Co.
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Walker Martin, Inc.
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Sacramento, Cal.
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St. Louis, Mo.
General Electric Appliances Co.
St. Paul, Minn.
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General Electric Supply Co.
San Francisco, Cal.
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General Electric Supply Co.
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Toledo, Ohio
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Duro Supply Co.
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Cleveland, Ohio
Great Lakes Sales Co.
Columbus, Ohio
Squire Heating Co.
Davenport, Iowa
Republic Electric Co.
Detroit, Mich.
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Fort Wayne, Ind.
Tri-State Heating Supply Co.
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Behler-Young Co.
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Famous Furnace Co.
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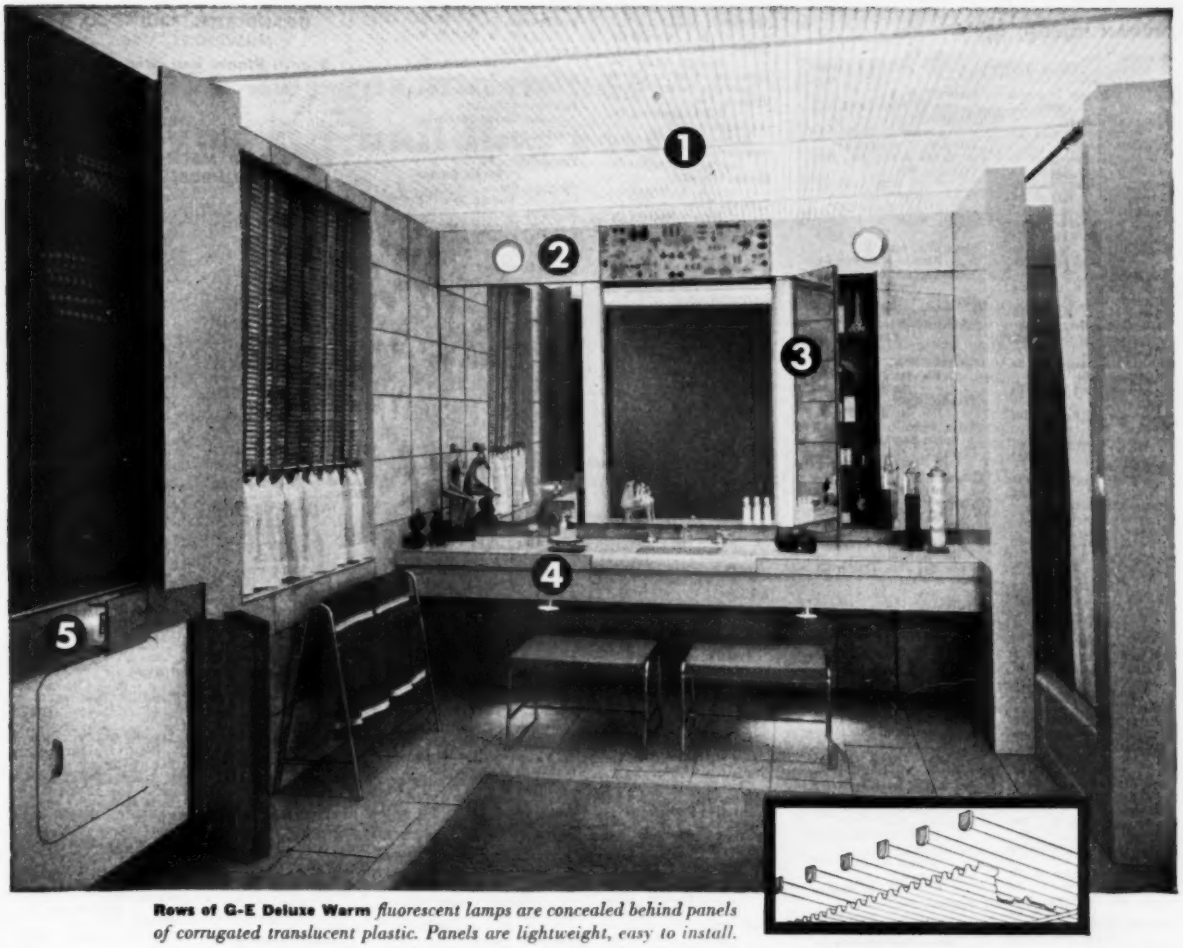

Rows of G-E Deluxe Warm *fluorescent lamps are concealed behind panels of corrugated translucent plastic. Panels are lightweight, easy to install.*

Let a G-E Light Conditioned bathroom

sell your houses faster

THIS room shows how lighting can add many times its cost to the value of a house. Leading interior designer Bertha Schaefer created it for a 5-page General Electric ad in the February 13th *Saturday Evening Post.*

Light Conditioning makes this bathroom a show-off selling feature, the kind many alert builders use to close sales.

Keys to the room's beauty and usefullness are five General Electric Light Conditioning ideas.

1. G-E Deluxe Warm fluorescent lamps shine through a plastic ceiling to give the effect of an open sunlit sky.
2. Built-in sunlamps above the mirrors make the bathroom a sunroom, too.
3. G-E fluorescent lamps, flanking the center mirror, give shadow-free light for shaving or making-up.
4. Unusual luxury touch: G-E PAR-38 spotlights serve as pedicure lamps.
5. A shielded General Electric ozone lamp banishes odors electronically.

Any or all of these General Electric Light Conditioning ideas can add sales appeal to your bathrooms at a minimum of extra cost. Light Conditioning can do just as much for other rooms, too. For more information on G-E Light Conditioning, write General Electric, Dept. 166-AB-4, Nela Park, Cleveland 12, O.

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Springfield, Mass.
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Butler-Sparks Equip. Co.
Utica, N. Y.
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Jacksonville, Fla.
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Lafayette, La.
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Gallaher Hardwood Co.
Louisville, Ohio
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Manhattan Beach, Cal.
J. J. Ittes; Benj. Levinson & Co.
Melbourne, Fla.
F. E. Snow & Sons
Milwaukee, Wis.
Shannon Floor Co.
Minneapolis, Minn.
Hugh C. Pierson
Mobile, Ala.
Mobile Tile Co.
Montgomery, Ala.
Jahle's Bldg. Supply
New Orleans, La.
Higgins Marine Sales Corp.
New York, N. Y.
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Norfolk, Va.
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Oklahoma City, Okla.
Superior Floor Co.
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Providence, R. I.
Fain's Floor Covering Co.
Rochester, N. Y.
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Richmond Floor Co.
San Antonio, Tex.
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San Diego, Cal.
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I. E. Danford
Calgary, Alberta, Canada
Cumming Galbraith, Ltd.
Charlotte, N. C.
Thomas A. Cooper
Chicago, Ill.
Thompson & Helikson
Cincinnati, Ohio
Midwest Sales Eng., Inc.
Cleveland, Ohio
N. M. Berger & Assoc.
Columbus, Ohio
Heating & Cooling Equip. Co.
Dallas, Tex.
J. P. Asheraft Co.
Denver, Colo.
J. N. Doyle Co.
Des Moines, Iowa
D. C. Murphy Co.
Detroit, Mich.
Heating Equip. Co.
Edmonton, Alberta, Canada
Cumming Galbraith, Ltd.
Houston, Tex.
B-B Engineering Co.
Indianapolis, Ind.
Midwest Sales Eng., Inc.
Jacksonville, Fla.
Florida Air Control Co.
Kansas City, Mo.
H. H. Wright Co.
Lansing, Mich.
Modern Heating Co.
Little Rock, Ark.
Peerless Sales Co.
Los Angeles, Cal.
H. F. Haldeman, Inc.
Memphis, Tenn.
J. B. Lammons
Miami, Fla.
George Brophy
Milwaukee, Wis.
Gehring Eng. Corp.
Minneapolis, Minn.
William N. Parks
Nashville, Tenn.
J. A. Harwell
New Haven, Conn.
Johnson-Goodyer, Inc.
New Orleans, La.
W. H. Dudley, Jr.
Newton, Mass.
Robert Finnin Sales Co.
New York, N. Y.
Hook & Ackerman, Inc.
Oklahoma City, Okla.
Loeffler Greene Supply Co.
Omaha, Neb.
Prawl Eng. Corp.
Philadelphia, Pa.
Harold Staman
Portland, Ore.
Howard A. Weller
St. Louis, Mo.
Midwest Sales Co.
Salt Lake City, Utah
Henry S. Parks
San Antonio, Tex.
J. R. Dowdel & Co.
San Francisco, Cal.
Power Boiler Sales
Shreveport, La.
J. W. Cherry
Stamford, Conn.
George L. A. Day
Syracuse, N. Y.
Mercury Sales Co.
Utica, N. Y.
Earl H. Ennis

HOWELL MANUFACTURING CO.
PHILADELPHIA, PA.

Allentown, Pa.
L. A. Baller & Son
Asheville, N. Y.
Green Brothers
Augusta, Ga.
Slusky Builders' Supplies, Inc.
Baltimore, Md.
McGill-Smith Co.
Bethlehem, Pa.
Brown-Borhek Co.
Boston, Mass.
Raymond H. Pierce Co.
Bridgeport, Conn.
Harold Building Material Co.
Bristol, Va.
Bristol Steel & Iron Works, Inc.
Canton, Ohio
Weather Master Co.
Charlottesville, Va.
Charlottesville Hardware
Chicago, Ill.
The Surty Mfg. Co.
Columbia, S. C.
Kline Iron & Metal Co.
Dayton, Ohio
Gem City Planing Mill & Lumber Co.
Des Moines, Iowa
Eastside Home Improvements
Erie, Pa.
Lyman Felheim Co.
Fort Wayne, Ind.
Tri-State Builders & Supplies, Inc.
Freeport, L. I., N. Y.
Serries Supply Co.
Greensboro, N. C.
Traitt Mfg. Co.
Helena, Mont.
Builders Supply Co.
Holland, Mich.
T. Keppel's Sons
Indianapolis, Ind.
Dealers Supply Co.
Jacksonville, Fla.
W. A. Brooke Co.
Louisville, Ky.
Huttig Sash & Door Co.
Manchester, N. H.
Sundeen Lumber Co.
Merchantville, N. J.
Ellis Over Head Door Co.
Myerstown, Pa.
Harry L. Lehman & Son
Norfolk, Va.
Seaboard Paint & Supply Co., Inc.
North Wilkesboro, N. C.
Jenkins Wholesale Supply Co., Inc.
Orlando, Fla.
Southeast Steel Sales Co.
Owatonna, Minn.
The C. C. Jolly Co.
Pittsburgh, Pa.
William T. Leggett Co.
Plainfield, N. J.
J. D. Loizeaux Lumber Co.
Richmond, Va.
Sitterding-Carneal-Davis Co., Inc.
Rochelle Park, Saddle River Township, N. J.
Builders Trading Corp.
Rocky River, Ohio
West Lake Fuel, Lumber & Supply, Inc.
St. Petersburg, Fla.
Pinellas Lumber Co.
Salisbury, Md.
C. F. Lewis & Co.
Somerville, Mass.
A. W. Hastings & Co.
Spokane, Wash.
H. L. Ring Co.
Upper Darby, Pa.
Young Supply Co.
Washington, D. C.
Hudson Supply & Equipment Co.
Wenatchee, Wash.
F. T. Pybus Co.
Wheeling, W. Va.
R. G. Hobbs Lumber Co.
Wilmington, Del.
Brosius & Smedley
Worcester, Mass.
Wood, Inc.

MILCOR

Steel Building Products

- METAL LATH
- ROOF DECK
- CORNER BEAD
- CASING BEADS
- ACCESS DOORS

Sold by Building Supply Dealers Everywhere

INLAND STEEL PRODUCTS COMPANY

INLAND STEEL PRODS. CO.
MILWAUKEE, WIS.

Branch Plants and Warehouses

Baltimore, Md.
Buffalo, N. Y.
Chicago, Ill.
Cincinnati, Ohio
Cleveland, Ohio
Detroit, Mich.
Kansas City, Mo.
Los Angeles, Cal.
Milwaukee, Wis.
St. Louis, Mo.

JAEGER MACHINE CO.
COLUMBUS, OHIO

Albany, Ga.
R. S. Armstrong & Bro. Co. of Albany
Albuquerque, N. M.
J. D. Coggins Co.
Amarillo, Tex.
Plains Machinery Co.
Ashland, Ky.
Wayne Supply Co.
Atlanta, Ga.
R. S. Armstrong & Bro. Co.
Augusta, Me.
Murray Machinery Co.
Baltimore, Md.
John C. Louis Co., Inc.
Barre, Vt.
Interstate Equipment & Supplies Co., Inc.
Baton Rouge, La.
Southern Equipment & Tractor Co. of Baton Rouge, Inc.
Birmingham, Ala.
Tractor & Equipment Co., Inc.
Boise, Idaho
The Sawtooth Co.
Bowling Green, Ky.
Wayne Supply Co.
Buffalo, N. Y.
Rupp Equipment Co.
Butte, Mont.
Butte Machinery Co.
Canton, Ohio
Marks Tractor & Equipment Co.
Cedar Rapids, Iowa
Martin-Roosa Tractor & Equipment Co.
Charleston, W. Va.
Walker Machinery Co.
Charlotte, N. C.
North Carolina Equipment Co.
Chattanooga, Tenn.
Osborne Equipment Co.
Cheyenne, Wyo.
Wertham Machinery Co.
Chicago, Ill.
Arrow Contractors Equipment Co.
Cincinnati, Ohio
Highway Equipment Co.
Cleveland, Ohio
Marks Tractor & Equipment Co.
Columbus, Ohio
Lorenz Equipment Co.
Dallas, Tex.
Browning-Ferris Machinery Co.
Dayton, Ohio
Flack Equipment Co.
Denver, Colo.
Western Machinery Co.
Des Moines, Iowa
Hawkeye Machinery Co.
Detroit, Mich.
Cyril J. Burke, Inc.
East Providence, R. I.
Builders' Equipment & Supplies Co.
Eau Claire, Wis.
Miller, Bradford & Risberg, Inc.
El Paso, Tex.
Border Machinery Co.
Evansville, Ind.
Wayne Supply Co.
Fargo, N. D.
Dakota Tractor & Equipment Co.
Flushing, L. I., N. Y.
Jaeger-Lembo Machine Corp.
Fort Wayne, Ind.
Korte Bros., Inc.
Gallipolis, Ohio
Bischoff Machinery Co.
Grand Rapids, Mich.
Don F. Nickel Equipment Co.
Great Falls, Mont.
Central Machinery Co.
Green Bay, Wis.
Brebner Machinery Co., Inc.
Hammond, Ind.
Conway-Calligan Corp.
Harrisburg, Pa.
Highway Equipment & Supply Co.
Honolulu, Hawaii
Edward R. Bacon Co. of Hawaii, Ltd.
Houston, Tex.
Browning-Ferris Machinery Co.
Huntington, W. Va.
Contractors Equipment & Supply Co.
Indianapolis, Ind.
A. F. Deaney Co.
Jackson, Miss.
Choctaw, Inc.
Jacksonville, Fla.
Florida-Georgia Tractor Co.
Knoxville, Tenn.
Osborne Equipment Co.
Lakeland, Fla.
Florida-Georgia Tractor Co.
Lima, Ohio
Lima-Flack Co.
Little Rock, Ark.
Choctaw, Inc.
Los Angeles, Cal.
Smith Booth Usher Co.
Louisville, Ky.
Wayne Supply Co.
Marquette, Mich.
Brebner Machinery Co., Inc.
Memphis, Tenn.
Choctaw, Inc.
Miami, Fla.
Llewellyn Machinery Corp.
Milwaukee, Wis.
Prime-Best, Inc.
Minneapolis, Minn.
George T. Ryan Co.
Mobile, Ala.
Turner Supply Co.
Monroe, La.
Southern Equipment & Tractor Co. of Monroe, Inc.
Montgomery, Ala.
Ray-Brooks Machinery Co., Inc.
Morton, Ill.
A. E. Hudson Co.
Nashville, Tenn.
McCarthy, Jones & Woodward
New Haven, Conn.
Gesner Equipment Corp.
Norfolk, Va.
Hampton Roads Tractor & Equipment Co.
North Kansas City, Mo.
Buhlitz Machinery Co.
North Platte, Neb.
Nebraska Machinery Co.
Oklahoma City, Okla.
Wylie-Stewart Machinery Co., Inc.
Omaha, Neb.
T. S. McShane Co., Inc.
Orlando, Fla.
Florida-Georgia Tractor Co.
Paducah, Ky.
Wayne Supply Co.
Pharr, Tex.
Warden Pump Co.
Philadelphia, Pa.
Service Supply Corp.
Phoenix, Ariz.
Shriver Machinery Co.
Pittsburgh, Pa.
Highway Equipment Co.
Plattsburg, N. Y.
Vincent S. Jerry & Sons, Inc.
Portland, Ore.
Nelson Equipment Co.
Raleigh, N. C.
North Carolina Equipment Co.
Rensselaer, N. Y.
Van's Equipment Sales, Inc.
Richmond, Va.
Capital Equipment Co., Inc.
Roanoke, Va.
Carter Machinery Co., Inc.
Rochester, N. Y.
Rupp Equipment Co.
St. Louis, Mo.
Machinery, Inc.
Salt Lake City, Utah
Western Machinery Co.
San Antonio, Tex.
Contractors Machinery Co.
San Francisco, Cal.
Edward R. Bacon Co.
Seattle, Wash.
A. H. Cox & Co.; Yukon Equipment, Inc.
Sidney, Mont.
Tractor & Equipment Co.
Sioux Falls, S. D.
Empire Equipment Co.
Spokane, Wash.
Western Machinery Co.
Springfield, Mass.
Eastern Equipment Sales, Inc.
Springfield, N. J.
Jaeger-Lembo Machine Corp.
Tallahassee, Fla.
Florida-Georgia Tractor Co.

Continued next page

These Jaeger machines help you cut building costs

Jaeger's faster mixing cycle increases daily yardage

You charge in 5 to 7 seconds with the Jaeger "Skip Shaker" loader. You mix more thoroughly with Jaeger's "criss-cross re-mix" action. You discharge in another 5 to 7 seconds, with Jaeger's extra-big drum blades and "catch-all" spoon, no matter how sticky the mix.

With this speed you get Jaeger long-life construction: Machined high carbon steel drum tracks, Timken bearing drum rollers, oversize engines, highest type automotive transmission and many other advantages by which Jaeger mixers out-perform and outlast others.

3½S with Shaker Hopper puts out 12 to 15 more yards a day

Measuring batch hopper loads while mixing, then shakes load into drum the instant its gate is opened. Biggest yardage producer of all small mixers.

Jaeger 3½S tilter has double-action "V" bottom drum

Famous Jaeger-patented drum design doubles the mixing action of any ordinary tilter; also produces cleaner discharge of concrete, mortar or plaster.

"Power Hoe" plaster-mortar mixers save labor and material

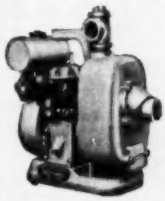
Jaeger's multi-blade pugmill mixing action produces material that is easier to spread and of full strength even when it carries more sand. Built in 3½ and 6½ ft. sizes to keep ahead of any size crew, all day and every day. Jaeger's leak-proof seal protects the Timken bearing drum shaft; bigger engines have automotive transmissions; drums are of heavier gauge steel.

Self-raising "Hoister" tower handles loads to 2000 lbs.

Available with either material cage or 14 ft. concrete bucket, and in 10′ sections up to 67 ft. high. Up to 37 ft. heights it is self-raising. Moves around job on its own skid base. Automatic safety device positively prevents falling even if cable breaks.

75 and 125 ft. air compressors

Costing no more than "old standard" 60 and 105 ft. sizes, "Air Plus" 75 and 125 ft. compressors deliver the additional air you need to run today's tools at full pressure and efficiency. Other sizes to 600 ft.



Big capacity small pumps

60 lb. aluminum "Bantam" pumps 5100 gph. New 2" semi-steel pump delivers 10,000 gph, yet weighs only 160 lbs. on base, 190 on pneumatic tires. Other sizes to 10".

THE JAEGER MACHINE COMPANY

521 Dublin Avenue, Columbus 16, Ohio

Sales, Rentals and Service in 153 Cities of U.S. and Canada. Send for Catalog.

JAEGER MACHINE, cont'd.

Tampa, Fla.
Florida-Georgia Tractor Co.
Toledo, Ohio
Flack Equipment Co.
Tulsa, Okla.
Wylie-Stewart Machinery Co., Inc.
Warren, Ohio
Bert Clark Co.
Washington, D. C.
William C. F. Bastian & Co.; John C. Louis Co., Inc.
West Columbia, S. C.
Van Lott, Inc.
West Medford, Mass.
Builders' Equipment & Supplies Co.
Wichita, Kan.
Buhlitz Machinery Co.

KOHLER OF KOHLER

MANUFACTURERS:

Enameled Cast Iron and Vitreous China Plumbing Fixtures; Air-cooled Engines; Electric Plants; Heating Equipment; Precision Controls.

Branch Offices in Principal Cities.

KOHLER CO.

KOHLER, WIS.

KWIKSET LOCKS

Kwikset locks are available at leading hardware jobbers & contract hardware distributors everywhere.

Kwikset Sales and Service Co.

Anaheim, Cal.

LARSEN PRODUCTS CORP.
BETHESDA, MD.

Atlanta, Ga.
The DeJarnette Supply Co.
Belleville, Ill.
St. Clair Material & Equipment Co.
Cambridge, Mass.
Wm. S. Simpson, Inc.
Chevy Chase, Md.
Garner & Co.
Chicago, Ill.
Wha-Lite Products
Cleveland, Ohio
Cleveland Builders Supply Co.
Denver, Colo.
Francis J. Fisher, Inc.
Los Angeles, Cal.
Blue Diamond Corp.
New Orleans, La.
Jahncke Service, Inc.
New York, N. Y.
Limestone Products Corp.
Orlando, Fla.
Norman A. Bialy and Associates
Philadelphia, Pa.
Tomkins Brothers
Pittsburgh, Pa.
D. J. Kennedy
Portland, Ore.
McCraken-Ripley Co.
St. Paul, Minn.
North Central Supply Co.
Salt Lake City, Utah
Hansen Lime & Stone Co.
Seattle, Wash.
Galbraith & Co.

LIBBEY-OWENS-FORD GLASS CO.
TOLEDO, OHIO
District Offices

Atlanta, Ga.
Boston, Mass.
Buffalo, N. Y.
Charlotte, N. C.
Chicago, Ill.
Cincinnati, Ohio
Cleveland, Ohio
Dallas, Tex.
Dayton, Ohio
Denver, Colo.
Detroit, Mich.
Indianapolis, Ind.
Kansas City, Mo.
Los Angeles, Cal.
Memphis, Tenn.
Miami, Fla.
Milwaukee, Wis.
Minneapolis, Minn.
New York, N. Y.
Philadelphia, Pa.
Richmond, Va.
St. Louis, Mo.
San Francisco, Cal.
Seattle, Wash.
Toledo, Ohio
Washington, D. C.

H. C. LITTLE BURNER CO. INC.
SAN RAFAEL, CALIF.

Abbeville, S. C.
Abbeville Appliance Service
Aberdeen, Wash.
Trinneer's Appliance
Anacortes, Wash.
De Remer Appliance
Angels Camp, Cal.
Carl T. Mills Co.
Colonial Beach, Va.
Avery Davis & Co.
Columbia, S. C.
Clark Heating Co., Inc.
Decatur, Ill.
Al Church Heating Co.
De Smet, S. D.
Merle E. Pratt

The FIRST Oil Floor Furnace

with fully automatic electric ignition! Heat even if electric power fails! U. L. listed for No. 2 oils! Many other advantages. Also gas models. See ad page 260.

H. C. LITTLE Burner Co., Inc.

Ansonia, Ohio
F. J. Wheeler & Son
Antioch, Ill.
Paul R. Avery, Inc.
Appleton, Wis.
McKinley Engineering
Arlington, Wash.
Henry Murray
Ashley, Ill.
Ashley Appliance Store
Ashley, N. D.
Dockers Sheet Metal Co.
Aurora, Ill.
"Swift's"
Baker, Ore.
Monnreh-Maytag Co.
Bakersfield, Cal.
H. Russell Taylor's Fire Prevention Serv.
Ballground, Ga.
Malone Electric Co.
Barnard, Mo.
McBride & Duke
Bartow, Fla.
Elmer's Inc.
Bellingham, Wash.
Byron Young
Belmont, Mass.
Clarence S. Miner
Blackfoot, Idaho
Jimenez Oil Co.
Boise, Idaho
Davidson Service
Bothwell, Wash.
Waley Oil Burner Service
Bremerton, Wash.
Mitchell Sales Corp.
Brooklyn, N. Y.
Buckwheat Blower Co.
Buffalo, N. Y.
William Krohn
Buffalo, W. Va.
Jones Appliance Service
Burlington, Wash.
McKay Furniture Co.
Bushnell, Ill.
McHendry Gas & Electric
Cadet, Mo.
Golden Pheasant Service
Cairo, Ga.
Roddenbery Hdwe. Co., Inc.
Camas, Wash.
Belz Fuel Service
Campbelltown, Pa.
A. M. Brandt Sons
Centralia, Wash.
Reda Hdwe. & Electrical Co.
Chelan, Wash.
Harold Bragg Appliance
Chicago, Ill.
Englewood Stove & Parts Co.
Clearwater, Fla.
Dean Roofing & Sheet Metal Co.
Detroit Lakes, Minn.
Tri-State Heating Co.
Dover, N. H.
Robertson-Lunt Co.
Dover, N. J.
A. C. Allen
East Hartford, Conn.
Mellon, White & Palshaw, Inc.
East Orange, N. J.
W. R. McCurdy
Elbe, Wash.
H. F. Kristofferson
Ellenville, N. Y.
Miller Electric Service
Enterprise, Ore.
Foster Plumbing & Heating
Ephrata, Wash.
Loy's Refrigeration Co.
Eugene, Ore.
Barker Electric
Everett, Wash.
Everett Home Appliance Co.; Johnson-Thorpe Furniture Co.
Falls Church, Va.
Home Heating Co.
Fayetteville, N. C.
Glenn Newberry "Heating"
Fernandina, Fla.
Sorensen Sales & Service
Fort Benton, Mont.
Central Service Station
Gainesville, Fla.
C. P. Dressler
Geneva, N. Y.
Frank Liberio Heating
Glasgow, Mont.
Markles
Glenbrook, Conn.
Crescent Sales & Service
Glendive, Mont.
Glendive Electric
Grand Rapids, Mich.
Michigan Automatic Heating
Grand Rapids, N. D.
Mills Lumber Co.
Grandview, Wash.
Matheson's
Grangeville, Idaho
Lindsley Electric Service
Grass Valley, Cal.
Ace Sheet Metal Prods. Co.
Gresham, Ore.
Canutts' Auto & Electric
Hammond, Ind.
Ervin Klawinski Heating & Air Conditioning
Hewitt, N. J.
Daniel E. Welch
Indianapolis, Ind.
Indiana Heating Corp.

The FIRST Oil Wall Furnace!

Fully automatic electric ignition! Heat even if electric power fails! U. L. listed for No. 2 oils! Compact, silent, safe! Low cost! Saves space! See ad page 260.

H. C. LITTLE Burner Co., Inc.

Cleona, Pa.
Lebanon Valley Petroleum Inc.
Cocoa, Fla.
Cocoa Sheet Metal & Roofing Co.
Coeur d'Alene, Idaho
Campbell Hdwe. Co.
Colchester, Ill.
Hunt Appliance
Colfax, Wash.
Powell Plumbing & Heating
Jamestown, N. D.
Arneson Sheet Metal Co.
Kalispell, Mont.
Kalispell Mercantile
Kellogg, Idaho
Lanes Heating Service
Kennewick, Wash.
Bunch-Finnigan
Kent, Wash.
Kent Hdwe. Co.
Lacrosse, Wash.
Shaver Electric Service
Lake City, Fla.
Witt Electric Co.
Lakeview, Ore.
Adams & Fossum
Lake Villa, Ill.
Paul R. Avery, Inc.; J. G. Miller Heating Service
Lewes, Del.
Electric Services, Inc.
Lewiston, Idaho
Largent's
Little York, N. Y.
E. A. Watson
Logansport, Ind.
B. R. Wilhelm Co.
Lynwood, Wash.
Olds Oil Depot
Madison, Wis.
Burgette Furnace Shop
Manchester, N. H.
Granite State Maytag, Inc.
Maynard, Mass.
Brackett Heating & Appliance
Medford, Ore.
Medford Fuel Co.
Millville, N. J.
Wm. Husted
Milwaukee, Wis.
Bottled Gas Corp. of Wisconsin; J. Greeschel & Son
Missoula, Mont.
The Mercantile
Montgomery, Ala.
Brooks Heating & Ventilating Service
Mountain View, N. J.
Flanders Sales & Service
Mt. Vernon, Wash.
McDonnell Appliance
Muncie, Ind.
Lehman's Heating & Plumbing Co.
Murphysboro, Ill.
E. F. Rodewald
New Bern, N. C.
Woodrow Moore's Sheet Metal Works; Stallings Bros., Inc.
Newberry, S. C.
Yates Heating & Refrigeration
New Dorp, S. I., N. Y.
Coley's Fuel Oil Service
Norfolk, Va.
Mansfield Co., Inc.
North Bend, Wash.
Moffat Distributing Co.
Richmond, Ind.
Jackson Heating Service
Rochester, N. Y.
Home Equipment Co., Inc.; W. R. McCurdy, Jr.
Rolla, Mo.
R. G. Jackson
Ronkonkoma, L. I., N. Y.
Baylias Heating Co., Inc.
Rosalia, Wash.
Rosalia Hdwe. Co.
Rudyard, Mont.
Sanvik Bros.
St. Louis, Mo.
Manufacturers & Distributors Service Co., Inc.
St. Paul, Minn.
V. Sloan Co.
St. Petersburg, Fla.
Automatic Cooling & Heating Co.; Walter Craighead Co.; Fletcher McQueen Oil Co.; Krauss Air Conditioning, Inc.
Sandpoint, Idaho
Murray's Radio & Appliance
San Mateo, Cal.
Cook Oil Co.
Sarasota, Fla.
Sarasota Hdwe. & Paint Co.
Savannah, Ga.
Munn-Heating Service
Scalp Level, Pa.
John F. Brambaugh
Seattle, Wash.
Glenn Carrington & Co.; Lake City Fuel Co.; Napier & Scott; Reece Heating & Appliance; Roosevelt Air Conditioning
Sedro Woolley, Wash.
White Fuel & Transfer Co.
Seekonk, Mass.
Pond & Bond, Inc.
Sequim, Wash.
Sequim Plumbing & Heating
Shore Acres, N. J.
W. Syme
South Chatham, Mass.
Charles E. H. Cahoon
Sparta, N. J.
Homayer Heating Co.
Spokane, Wash.
Electro-Mart

UP-FLOW and DOWN-FLOW

oil and gas furnaces for low-cost, space saving, first floor installation. Clean, quiet, compact, trouble free. See specs in ad, page 260.

H. C. LITTLE Burner Co., Inc.

Northfield, N. J.
Walt Nothaft
North Weymouth, Mass.
Frank W. Anderson
Oak Harbor, Wash.
Loeck Sheet Metal & Heating
Ocala, Fla.
John M. Gadell & Co.
Okanogan, Wash.
Bev Wilson Furniture Co.
Olympia, Wash.
Olympia Appliance Center Inc.
Olyphant, Pa.
Royal Sales Co.
Orcas, Wash.
Orcas Electric Co.
Orofino, Idaho
Oad Hdwe. & Furniture Co.
Palatka, Fla.
Coursey-Murphy Furniture, Inc.
Palmetto, Fla.
Whittle Plumbing Co.
Panama City, Fla.
Dave Robertson Electric Co.
Pasco, Wash.
Elmer E. Matheson
Paterson, N. J.
Quackenbush & Son's
Penns Grove, N. J.
Levitt's Electric Service
Philadelphia, Pa.
Jacobs Bros.
Plymouth, N. C.
A. G. Pinkham Plumbing & Heating
Port Angeles, Wash.
8th Street Furnace & Repair Shop
Portland, Mich.
H. W. Peake
Portland, Ore.
Little Burner Service Co.
Pullman, Wash.
Standifer Refrigeration
Puyallup, Wash.
Puyallup Fuel Co.
Sprague, Wash.
Ellis Truck & Tractor Co.
Stillwater, Minn.
Waterbury St. Croix Sales Co.
Sumner, Wash.
Goodwin Heating
Sunnyside, Wash.
Killingstad Bros.
Sweet Home, Ore.
White's Furniture
Tacoma, Wash.
Weir's
Tallahassee, Fla.
Tallahassee Roofing & Heating Co.
Tampa, Fla.
Dale Mabry Heating & Metal Co.
Tiffin, Ohio
Friedrich Air Conditioning Co.
Tifton, Ga.
Roddenbery Hdwe. Co. Inc.
Toms River, N. J.
Modern Sheet Metal Works
Topanga, Cal.
B & B Oil Co.
Toppenish, Wash.
City Plumbing & Heating
Traverse City, Mich.
Wm. Hart & Sons
Van Wert, Ohio
McKeddie's
Vineyard Haven, Mass.
Manuel M. Maciel, Inc.
Wallace, Idaho
Tabor's
Walla Walla, Wash.
Valley Supply Co.
Wampee, S. C.
Bell Oil Co.
Watertown, S. D.
Home Heating Co.
Waukesha, Wis.
Natural "L.P." Gas Corp.
Wenatchee, Wash.
Wells & Wade Hardware
West Franklin, N. H.
Merlin H. Cook

Continued next page

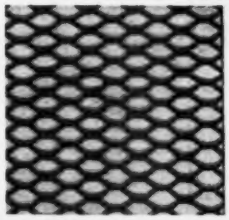
MILCOR

Reg. U. S. Pat. Off.

Metal Lath

and accessories

Manufacturers of over 2,500 items for farm, home, and industry

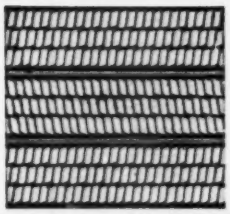


Smalmesh Metal Lath

A general utility lath. Can be readily bent or formed for furred or ornamental members. Due to the small, rigid mesh a minimum of plaster is required to produce a perfect key.

SHEET SIZE: 27" x 96", packed 10 sheets (20 sq. yds.) per bundle. All sheets squared on both ends.

MATERIALS AND WEIGHTS (lb. per sq. yd.): Copper Alloy Steel, Painted—2.50 lb., 3.40 lb., Galv. Sheet Steel 3.40 lb.

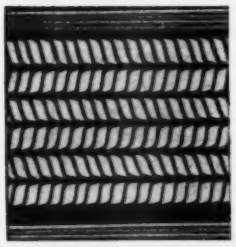


Specialmesh Metal Lath

A rib lath for walls and ceilings. Saves plaster; provides excellent bond. Ribs 3/8" wide; 1-5/8" on centers. Cross strands at 1/4" intervals, reinforced by stiffening members (two between each pair of ribs). Sheets squared on ends. Well suited to "two coat work" or "back plastering."

SHEET SIZE: 24" x 96", packed 9 sheets (16 sq. yds.) per bundle. 27" x 96", packed 10 sheets (20 sq. yds.) per bundle.

MATERIALS AND WEIGHTS (per sq. yd.): Copper Alloy Steel, Ptd.—2.75 lb., 3.40 lb.

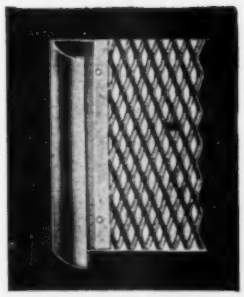


3/8" Stay-Rib Metal Lath No. 2

Ideal self-furring lath for wide ceiling or wall spans and for floor reinforcing over steel joists. 3/8" heavy ribs spaced 4.8" on centers. Five stiffening members between ribs. Connecting strands at 1/4" intervals. Rigidity of ribs saves labor and material when supports are widely spaced.

SHEET SIZE: 24" x 96", packed 9 sheets (16 sq. yds.) per bundle.

MATERIALS AND WEIGHTS (per sq. yd.): Copper Alloy Steel, Ptd.—3.40 lb., 4.00 lb.

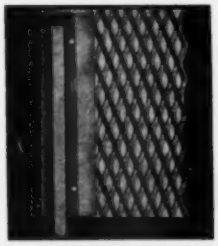


No. 4 Expansion Casing Bead

(also available with short, solid flange as No. 138.)

For doors, windows and other openings. Applied before plastering. Provides screed to which plasterer can work. Only smooth, quarter-round nose of casing bead exposed after plastering. Integral Expansion Wing reinforces plaster. Rigid flange insures tight fit to jamb.

MATERIALS: 24 ga. Tight Coat Galv. Steel
LENGTHS: 7 ft., 7 ft. 3 in., and 10 ft.
GROUNDS: 1/2 in. and 3/4 in. (also 7/8 in., short flange only)
WEIGHT (per 1,000 lin. ft.): 315 lb. (Short Flange —235 lb.)
PACKING (per ctn.): 7 ft.—80 pcs.; 7 ft. 3 in.—80 pcs.; 10 ft.—60 pcs.



No. 66 Expansion Casing Bead

(also available with short, solid flange—22 ga.)

Square design with 3/16" return. Expansion Wing feature affords excellent plaster bond and reinforcement; minimizes plaster cracking. Ridge in nailing flange insures tight fit.

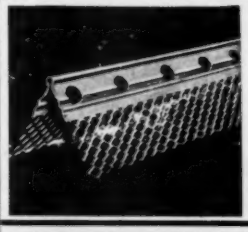
MATERIAL: 24 ga. Tight Coat Galv. Steel
LENGTHS: 7 ft., 7 ft. 3 in. and 10 ft.
GROUNDS: 1/2 in. and 3/4 in. (also 7/8 in., short flange only)
WEIGHT (per 1,000 lin. ft.): 260 lb. (Short Flange—240 lb.)
PACKING (per ctn.): 7 ft.—80 pcs.; 7 ft. 3 in.—80 pcs.; 10 ft.—60 pcs.

Milcor Corner-Ex

Finished edges. Center rib guides Corner-Ex accurately into corner. Design and contour eliminate any projections interfering with plastering. Wired together in sub-bundles of 25 pcs. each. Packed three sub-bundles (75 pcs.—600 ft.) per carton.

SIZES: 2" x 2" x 96"; 3" x 3" x 96".

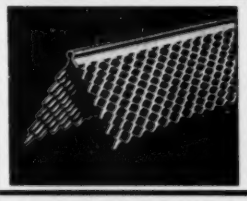
WEIGHTS (per 1,000 lin. ft.): 2"—100 lb.; 3"—140 lb.



Super-Ex Corner Bead

Combines advantages of Expansion and Solid Wing corner beads. Strong, straight nose reinforced by two solid flange sections, strengthened by corrugations. Integral expansion flange makes excellent plaster bond, simplifies erection.

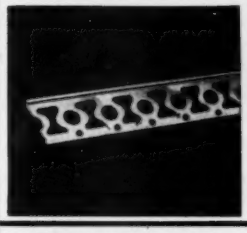
MATERIAL: 26 ga. Sheet Steel, Galvanized.
LENGTHS: 7, 8, 9, 10 and 12 ft.
WEIGHT (per 1,000 lin. ft.): 270 lb.
PACKING (per carton): 7 ft.—80 pcs.; 8 ft.—70 pcs.; 9 ft.—60 pcs.; 10 and 12 ft.—50 pcs.



No. 1 Expansion Corner Bead

Wide expanded metal wing integral with nose of the bead—plaster keys right up to nose; effective plaster reinforcement exactly where needed.

MATERIAL: 26 gauge Sheet Steel, Galv.
LENGTHS: 7, 8, 9, 10 and 12 ft.
WEIGHT (per 1,000 lin. ft.): 210 lb.
PACKING (per carton): 7 and 8 ft.—80 pcs.; 9, 10 and 12 ft.—60 pcs.



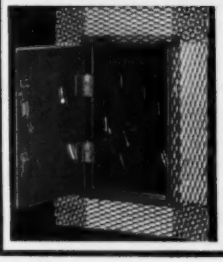
Milcor Arch Bead

Used straight or curved. Snip one or both flanges with tin snips: Bead can then be formed easily into a smooth arc, without kinks or breaks in the nose, by applying slight pressure with the hands. Minimum of metal cutting required.

MATERIAL: 26 gauge Sheet Steel, Galv.
LENGTHS: 7, 8, 9, 10 and 12 ft.
WEIGHT: (per 1,000 lin. ft.): 175 lb.
PACKING (per carton): 7 and 8 ft.—80 pcs.; 9, 10 and 12 ft.—60 pcs.

Milcor Clean Out Doors

Convenient for removing accumulations of chimney debris. New door catch provides positive lock; prevents door from being blown open. New hinge design permits lasting freedom of operation. Wide flanges on frame simplify installation. Stamped from high grade, 16 ga. copper alloy steel. Furnished painted. Size 8" x 8". Packed six doors per carton—shipping weight: 19 lbs.



Milcor Metal Access Doors

For easy access to utility systems without damage to walls. New spring hinge allows opening to 175°. Number of hinges varies with size of door. Doors removable.

STYLES: For plastered walls; Style "K" with expansion wing, Style "L" with solid flange. Style "M" for non-plastered walls.
SIZES: 8" x 8" to 24" x 36".
MATERIALS: Door 14 Ga. steel; housing 16 Ga. steel. Gray primer painted.
LOCKS: Flush cam type, number varies with size of door. Cylinder lock with two keys furnished at extra charge.
PACKING: One per carton.

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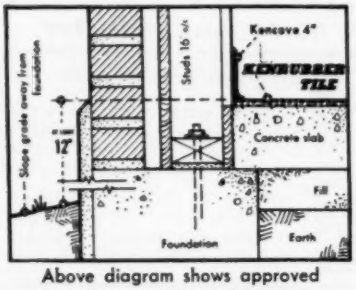

Above diagram shows approved installation of KenRubber over concrete in contact with the earth.

Now, KenRubber can be installed on the ground floor of popular non-basement homes ...without additional labor expense or waterproofing membrane . . . by using the newly developed KenSet Adhesive.* And, this is important to you...as well as to your clients... because it means more people can have the luxury and practical advantages of rubber tile flooring...without paying premium prices.

KenRubber's quality features can't be matched! High grade synthetic rubber is carefully compounded to attain tiles unequalled for precision squareness and gauge . . . clarity and richness of color . . . durable strength and cleaning ease. Yet, with all of its firm, lasting strength, KenRubber remains the quietest, most comfortable floor you or anybody will ever walk on.

SPECIFICATIONS AND TECHNICAL DATA

INSTALLATION: Over any smooth, firm interior surface removed from greases and oils. New KenSet Adhesive* makes possible fast, easy and economical installation over concrete in contact with the earth.

THICKNESSES: KenRubber is available in (.080") Standard Gauge and 1/8" gauge for normal flooring demands...3/16" gauge for extra-heavy commercial duty.

SIZES: Standard tile size is 9" x 9"...with a wide range of special sizes available on order.

Approximate Installed Prices (per sq. ft.)

	Standard (.080") Gauge	1/8" Gauge	3/16" Gauge
KENRUBBER	50¢	65¢	80¢

These costs are based on a minimum area of 1,000 sq. ft. over concrete underfloor. Cost of KenRubber's exclusive die-cut ThemeTile decorative inserts available on request.

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J. A. Walsh Co.
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Griffin Lumber Co.
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Iowa Builders Supply Co.
Jackson, Miss.
Best Interiors, Inc.
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Joplin, Mo.
Brankel's
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Wigginton Builders Supply Co.
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Schubert Lumber Co.
Lafayette, Ind.
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Las Vegas, Nev.
Rexford Supply Co.
Lewistown, Pa.
Modern Doors, Inc.
Lexington, Ky.
Lexington Glass Co.
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Beckfold Sales Co.
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Berlin Wilson Co.
Los Angeles, Cal.
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Louisville, Ky.
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South Glass Co.
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Farray's Hdwe. Co.
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W. H. Pinkorn Co.
Minneapolis, Minn.
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Stokes Interiors Gulf Coast
Moline, Ill.
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Nashville, Tenn.
John W. McDougall Co.
New Haven, Conn.
S. Berry Jennings Co.
New London, Conn.
W. A. Park Co.
New Orleans, La.
Modernfold Door Sales
New York, N. Y.
M'fold Door Co.
Norfolk, Va.
Craftsman Sales, Inc.
Oklahoma City, Okla.
Modernfold Door Sales
Omaha, Neb.
Porter-Trustin Co.
Orlando, Fla.
Albert R. Bricklin, Inc.
Ottawa, Ill.
Lockwood Glass Co.
Parkersburg, W. Va.
Metal Prods. Agency
Peoria, Ill.
M'fold Doors
Philadelphia, Pa.
Pierce-Phelps, Inc.
Phoenix, Ariz.
Laing-Garret Construction & Spec. Co.
Pittsburgh, Pa.
Modernfold Door of W. Pa.
Plattsburg, N. Y.
Dock & Coal Co.
Portland, Ore.
Mason Supply Co.
Portsmouth, Ohio
W. A. Neuman Co.
Providence, R. I.
A. H. Leeming & Sons of R. I.
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Knecht's Lumbermen's Supply
Reno, Nev.
Builders Mill & Fixture Co.
Rensselaer, N. Y.
Crawford Door Sales Albany Co.
Richmond, Ind.
Runnels Builders Products
Richmond, Va.
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Rochester, N. Y.
C. N. O'Brien Co.
Rocky Mount, N. C.
Carolina Bldg. Supply
Roswell, N. M.
Welch-Erwin Corp.
Rutland, Vt.
C. A. Bader Co.
Sacramento, Cal.
Harry B. Ogle & Assoc.
St. Louis, Mo.
Modernfold Door Sales
St. Petersburg, Fla.
Wagner Distributors
Salt Lake City, Utah
Adler's
San Angelo, Tex.
San Angelo Bldg. Materials Co.
San Antonio, Tex.
Modernfold Door Sales Co.
San Diego, Cal.
Andrew N. Baird Building Spec.
San Francisco, Cal.
Modern Building Spec.
Savannah, Ga.
Southern Glass Co.
Seattle, Wash.
M'fold Doors, Inc.
Shreveport, La.
H. Knauer & Co.
Sioux City, Iowa
The Gerkin Co.
Sioux Falls, S. D.
Builders Supply Co.
South Bend, Ind.
G. E. Weaver Co.
Spokane, Wash.
Spokane Sash & Door Co.
Springfield, Ill.
W. H. Brown
Springfield, Mo.
H. B. Wall & Sons
Stockton, Cal.
Scruggs, Inc.
Syracuse, N. Y.
B. R. Johnson & Son
Texarkana, Tex.
Cunningham Lumber Co.
Toledo, Ohio
M'fold Door Co.
Topeka, Kan.
Ray Anderson
Torrington, Conn.
Scott's Venetian Blind Co.
Tucson, Ariz.
Laing-Garrett Construction & Spec. Co.
Tulsa, Okla.
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Utica, N. Y.
Utica-Crawford Door Sales Co.
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Nelson Prod. Co.
Washington, D. C.
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Builders Hdwe. Inc.
West Palm Beach, Fla.
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West Springfield, Mass.
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Worcester, Mass.
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Robertson Heating Supply Co.
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Saunders Co.
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Irwin Steel Co.; Robertson Heating Supply Co.
Charleston, W. Va.
Dunbar Metal & Supply Co.
Chicago, Ill.
Active Fuel & Heating Supply Co.
Cleveland, Ohio
Decker-Reichert Steel Co.; Automatic Gas Heating Co.; Sharp Heating Co.
Columbus, Ohio
F. O. Schoedinger
Corning, N. Y.
Ward Williams, Inc.
Cut Bank, Mont.
Glacier Distributors
Davenport, Iowa
Davenport Heating Supply Co.; Globe Machinery & Supply Co.
Dayton, Ohio
W. H. Kiefaber Co.
Denver, Colo.
Claude S. Slocum
Miami, Fla.
Swigert Air Conditioning Engineers
Milwaukee, Wis.
Schwab Furnace Co.
Minneapolis, Minn.
D. O. Clarke Co.
Mobile, Ala.
Air Conditioning Engineers
Moline, Ill.
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Morehead, Ky.
Hackney Electric & Heating Co.
New Orleans, La.
Fox Engineering
Newport News, Va.
Noland Co., Inc.
New York, N. Y.
Overhead Heaters Inc.
Oklahoma City, Okla.
Mideke Supply Co.
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Plumb Supply Co.; Roberts Supply Co.
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Gray Sales Co.
Spencer, Iowa
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Jennings & Crumrine Heating Co.
Steubenville, Ohio
Robertson Heating Supply Co.
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Gas Heat Corp.
Tulsa, Okla.
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Waterloo, Iowa
Heating & Cooling Supply Co.
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May Heating Co.
Youngstown, Ohio
Robertson Heating Supply Co.
Zanesville, Ohio
Robertson Heating Supply Co.

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Arkansas City Lumber Co.
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Comal Lumber Co.
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F. J. Shidmore & Son, Inc.
Brooklyn, N. Y.
John J. Doody & Son, Inc.
Cedar Rapids, Iowa
Builders Material Co.
Dallas, Tex.
Blue Diamond Co.
Detroit, Mich.
Friendship Plaster Supplies, Inc.
Elmira, N. Y.
Harris McHenry & Baker Co.
Fort Dodge, Iowa
Webster County Lumber Store
Fort Worth, Tex.
Cain Builders Supply Co.
Fresno, Cal.
Stewart & Nuss, Inc.
Grand Rapids, Minn.
King Lumber Co.
Hartford, Conn.
Jackson Seguine, Inc.
Houston, Tex.
W. L. Macatee & Son, Inc.
Kansas City, Mo.
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Owen Downham Lumber Co.
Logansport, Ind.
Loner's Lumber Co.
Lubbock, Tex.
Hard Material Co.
Mt. Vernon, N. Y.
Sun Lumber Co.
Oakland, Cal.
Peerless Stucco Co.
Oklahoma City, Okla.
Hutchison Lumber Co.
Parsons, Kan.
Home Lumber Co.
Pittsburgh, Pa.
Houston-Starr Co.
Pittsfield, Ill.
Pike County Coal & Lumber Co.
Portland, Ore.
Pacific Building Materials Co.
Salt Lake City, Utah
Hansen Lime & Stucco Co.
San Antonio, Tex.
Lynwood Brick & Tile Co.
Sandusky, Ohio
Geo. C. Matthes Coal & Supply Co.
Seattle, Wash.
Galbraith & Co.
Stillwater, Minn.
Central Lumber Co.
Topeka, Kan.
Heck Lumber Co.
Wheaton, Ill.
F. E. Wheaton Co.
Winona, Minn.
Botsford Lumber Co.
Youngstown, Ohio
Youngstown Building Material & Fuel Co.

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Joe Brashears Steel, Inc.
Albuquerque, N. M.
Rio Grande Steel Prods. Co.
Amarillo, Tex.
Crowe-Guide Cement Co.
Andalusia, Ala.
Covington Building Supply Co.
Anniston, Ala.
LaGarde Concrete Block Co.
Athens, Ga.
Bedgood Coal & Lumber Co.
Atlanta, Ga.
Rosenfield Steel Co.; Southern GF Co., Inc.
Austin, Tex.
Builders Specialty Co. of Austin
Charlotte, N. C.
N. J. Lock Steel Products
Chattanooga, Tenn.
Tennessee Building Specialties Corp.
Chicago, Ill.
Associated Builders Prods. Co.; Johnston Iron Works, Inc.
Cleveland, Ohio
Anchor Building Specialty Co.; Day Fabricating Co.; Roseman Structural Iron Co.; St. Clair Builders Supply Co.
Columbus, Ga.
Jordan Supply Co.
Columbus, Miss.
Columbus Glass Co.
Columbus, Ohio
Columbus Pipe & Equipment Co.
Dallas, Tex.
Samuel A. Ellsberry Co.
Dayton, Ohio
Israel Metal Builders Supplies
Decatur, Ga.
Almac Corp.
Denver, Colo.
Associated Distributors
Dothan, Ala.
Spelgner Concrete Block Co.
Evansville, Ind.
Lensing Wholesale, Inc.
Gadsden, Ala.
Copeland Glass Co.
Hammond, Ind.
Standard Equipment & Supply Co.
Hattiesburg, Miss.
Builders Supply Co.
Houston, Tex.
Buie Building Material Co.
Indianapolis, Ind.
Barrison & Clarke, Inc.
Jackson, Miss.
Mississippi Metal Products, Inc.
Jacksonville, Fla.
George P. Coyle & Sons
Kansas City, Mo.
Midwest Builders Supply, Inc.
Laurel, Miss.
Laurel Paint & Glass Co.
Louisville, Ky.
Wholesale Service Co.
Macon, Ga.
Bibb Steel & Supply Co.
Memphis, Tenn.
Clark & Fay, Inc.
Meridian, Miss.
Kimbrell-Ruffer Lumber Co.
Midland, Tex.
American Window Co.
Mobile, Ala.
Underwood Builders Supply Co.
Montgomery, Ala.
Southern Sash of Montgomery, Inc.
New York, N. Y.
Williams & Williams Products Corp.
Roanoke, Va.
Eldridge Gundiff, Inc.
Savannah, Ga.
Savannah Iron & Wire Works
Sheffield, Ala.
Southern Sash of Sheffield
Shively, Ky.
Home Supply Co.
Spokane, Wash.
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Tampa, Fla.
Booker & Co.
Tucson, Ariz.
Haskin Wholesale Co.
Tulsa, Okla.
Murray Womble Co.
Waycross, Ga.
Southeastern Brick Co.

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Dunbar Barton
Ashtabula, Ohio
Arthur Louis Supply Co.
Aurora, Ill.
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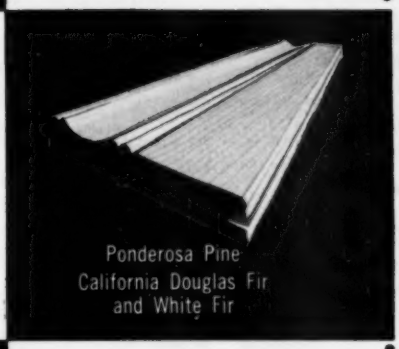
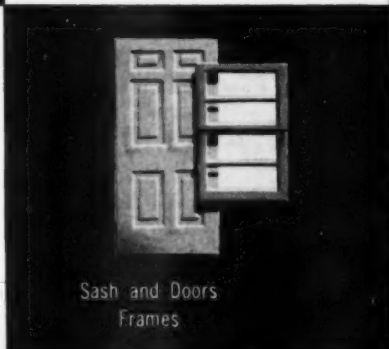


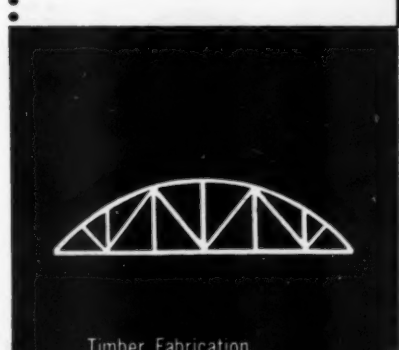
Ponderosa Pine
California Douglas Fir
and White Fir

Oak Flooring



Sash and Doors
Frames

Kitchen Cabinets
Factory Products



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Treated Wood Products
Posts, Poles & Piling

Plywood and
L-B Flake Board

The Long-Bell Lumber Company

Established 1875 — Kansas City 6, Mo.

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Bassett Heating Co.
Buffalo, N. Y.
Perfection Heating Co.
Casper, Wyo.
Panoratz Co.
Cedar Rapids, Iowa
Globe Machinery & Supply Co.
Chambersburg, Pa.
Vernon T. Harmon
Charlotte, N. C.
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Chicago, Ill.
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Cincinnati, Ohio
Perfection Heating Corp.
Cleveland, Ohio
Decker Reichert Steel Co.
Clinton, Mich.
Clinton Heating Service
Coldwater, Mich.
Southern Michigan Heating Supply
Columbus, Ga.
Spencer Equipment Co.
Columbus, Ohio
Columbus Air Conditioning Co.
Des Moines, Iowa
Globe Machinery & Supply Co.
Detroit, Mich.
Semmler Wholesale Supply
East Moline, Ill.
Johnson Sheet Metal
Erie, Pa.
Crossley Co.
Evansville, Ind.
U. S. Sheet Metal & Refrigeration
Fort Wayne, Ind.
Fort Wayne Air Conditioning
Franklin Square, N. Y.
H. L. Weckerle
Freemont, Ohio
A. C. Johnson
Gary, Ind.
G. W. Berkheimer Co.
Grand Rapids, Mich.
Henricks Supply Co.
Hackensack, N. J.
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Hyattsville, Md.
Boswell-Burke Co.
Jamaica Plain, Mass.
Leon Brothers
Kansas City, Mo.
The National Corp.
Lansdowne, Pa.
John T. Atkins
Lansing, Mich.
Hager-Fox Heating & Refrigeration
Lima, Ohio
Automatic Heating & Engineering
Macon, Ga.
Sneads Sheet Metal Shop
Mansfield, Ohio
Earnshaw Sheet Metal
Meadville, Pa.
Walkers Heating Supply
Miami, Fla.
Florida General Supply Co.
Minneapolis, Minn.
Perfection Heating Co.
Minot, N. D.
Westland Oil Co.
Nashville, Tenn.
Cooper & Winters
Newark, Ohio
Athanor Heating Co.
Omaha, Neb.
Albert O. Jensen
Oshkosh, Wis.
Telta & Land Inc.
Peoria, Ill.
Venzon Heating
Pittsburgh, Pa.
Malone Plumbing Supply
Providence, R. I.
Sims Corp.
Reading, Pa.
Reading Air Conditioning
Red Bluff, Cal.
Schafer Oil Co.
Rochester, N. Y.
Heating Supply Co.
St. Louis, Mo.
Bemis Supply Co.
San Rafael, Cal.
McPhail Fuel Co.
Southington, Conn.
Gould Co.
Spencer, Iowa
Globe Machinery & Supply Co.
Spokane, Wash.
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Springfield, Ill.
Material Supply Co.
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Harry Cooper Supply Co.
Syracuse, N. Y.
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Toledo, Ohio
Toledo Insulating Co.
Utica, N. Y.
Speck Lumber & Supply Co.
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General Heating Engineering Co.
Willets, Cal.
V. W. Haselwert
Wilmington, Del.
United Supply Co.
Woodhaven, L. I., N. Y.
Service Engineering & Refrigeration
Youngstown, Ohio
Manufacturing Supply Co.

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Denver, Colo.
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Halifax, N. S., Canada
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General Shale Products Corp.
Kansas City, Mo.
United Brick & Tile Co.
Mason City, Iowa
Mason City Brick & Tile Co.
New York, N. Y.
General Builders Supply Corp.
Oklahoma City, Okla.
United Brick & Tile Co.
Peoria, Ill.
Peoria Brick & Tile Co.
Point Richmond, Cal.
United Materials; Richmond Brick Co.
Portland, Ore.
Columbia Brick Works
Reading, Pa.
Glen Gery Shale Brick Corp.
Salisbury, N. C.
Isenhour Brick Co.
Salt Lake City, Utah
Interstate Brick Co.
Seattle, Wash.
Mutual Materials Co.
Springfield, Minn.
A. C. Ochs Brick & Tile Co.
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Wichita, Kan.
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Davidson Sash & Door Co.
Baltimore, Md.
Dealers Warehouse & Supply
Birmingham, Ala.
Birmingham Sash & Door Co.
Bristol, Va.
Wholesale Building Supplies
Buffalo, N. Y.
Rock Island Wholesale
Cedar Rapids, Iowa
Williams & Hunting
Charlotte, N. C.
Huttig Sash & Door Co.
Chicago, Ill.
Alexander Warehouse & Sales; Morgan Sash & Door Co.
Chico, Cal.
Diamond Match Co.
Cleveland, Ohio
Industrial Wholesale Lumber
Coffeyville, Kan.
Long-Bell Lumber Co.
Columbus, Ga.
Southern Hdwe. Co.
Columbus, Ohio
Huttig Sash & Door Co.
Cressona, Pa.
J. R. Quigley Co.
Dallas, Tex.
Huttig Sash & Door Co.
Denver, Colo.
Denver Wood Prods. Co.
Elmira, N. Y.
W. J. & E. R. Young
El Paso, Tex.
Booker-Walker Supply Co.
Enid, Okla.
Long-Bell Lumber Co.
Fort Smith, Ark.
Long-Bell Lumber Co.
Fort Wayne, Ind.
Midwest Lumber & Supply Co.
Fort Worth, Tex.
A. Roethels & Sons
Texas Sash & Door Co.
Gloucester City, N. J.
J. R. Quigley Co.
Grand Rapids, Mich.
Standard Supply Co.; Thelen Lumber Co.
Harrisburg, Pa.
J. R. Quigley
Helena, Mont.
Builders Supply Co.
Houston, Tex.
Houston Sash & Door Co.
Indianapolis, Ind.
Burnet-Binford Lumber Co.
Jacksonville, Fla.
Huttig Sash & Door Co.
Joliet, Ill.
Alexander Warehouse & Sales
Kansas City, Mo.
American Sash & Door Co.; Broadway Supply Co.; Long-Bell Lumber Co.
Knoxville, Tenn.
Huttig Sash & Door Co.
Lancaster, Pa.
J. R. Quigley
Loudon, Tenn.
Huttig Sash & Door Co.
Louisville, Ky.
Huttig Sash & Door Co.
Lubbock, Tex.
Forrest Lumber Co.; Navajo Supply
Memphis, Tenn.
Memphis Sash & Door Co.
Miami, Fla.
Huttig Sash & Door Co.
Minot, N. D.
Waller Specialty Co.
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Beasley & Sons Co.; Clark Hdwe. Co.; Craig-Morris Glass Co.; Harris-Webber Sash & Door; Huttig Sash & Door; McWhorter-Weaver & Co.; Nashville Sash & Door Co.; St. Bernard Coal Co.; Tennessee Glass Co.
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Whittler Lumber & Millwork
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Leo Cañero Co.; Woodward-Wight Co.
Northampton, Mass.
A. W. Hastings & Co., Inc.
Norwood, Ohio
ROW Wholesale Dist., Inc.
Oklahoma City, Okla.
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Oshkosh, Wis.
The Radford Co.
Ozone Park, L. I., N. Y.
Hussey-Williams Co., Inc.
Peoria, Ill.
Alexander Warehouse & Sales
Philadelphia, Pa.
J. R. Quigley
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Foxworth Galbraith Lumber; Victor H. Nelson Builders Hdwe. Co.
Pittsburgh, Pa.
Iron City Sash & Door Co.
Ponca City, Okla.
Long-Bell Lumber Co.
Portland, Ore.
McCraken-Ripley
Providence, R. I.
A. W. Hastings & Co., Inc.
Roanoke, Va.
Huttig Sash & Door
Royal Oak, Mich.
Royal Oak Wholesale Co.
Saginaw, Mich.
Saginaw Sash & Door Co.
St. Louis, Mo.
Huttig Sash & Door Co.
Salt Lake City, Utah
Morrison-Merrill Co.
San Diego, Cal.
Wilson F. Clark Co.; Syd Hall Co.
San Francisco, Cal.
J. Di Christina & Son
San Jose, Cal.
Thomy Bros.
Saranac Lake, N. Y.
D. Cohen & Sons
Savage, Minn.
Clark-Warmington Assoc.
Sea Breeze, N. Y.
Mack Millwork Co.
Seattle, Wash.
Modern Materials Co.
Shreveport, La.
Victoria Sash & Door Co.
Somerville, Mass.
A. W. Hastings & Co., Inc.
Spokane, Wash.
Standard Lumber Co.
Springfield, Mo.
Southern Supply Co.
Tacoma, Wash.
A. H. Geiger
Toledo, Ohio
Mayfair Lumber Co.
Topeka, Kan.
Long-Bell Lumber Co.
Tucson, Ariz.
Federal Supply Co.
Tulsa, Okla.
Long-Bell Lumber Co.; Southern Mill & Mfg. Co.
Urbana, Ill.
Alexander Warehouse & Sales
Utica, N. Y.
Chas. C. Kellogg & Sons; Macner Sales
Washington, D. C.
Barber & Ross Co.; Lamar & Wallace
Wichita, Kan.
Long-Bell Lumber Co.

Canadian Distributors

Beaver Lumber Co. in the following Ontario cities: Belleville, Buford, Chatham, Cornwall, Dresden, Elmira, Guelph, Ingersoll, Kingsville (also Conklin Lumber Co.), Leamington (also Ludlam Lumber Co.), London, Midland, Napanee, Niagara Falls, Owen Sound, Parry Sound, Petersborough, Port Colborne, Port Dover, Port Rowan, St. Catherines, St. Thomas, Sarnia, Stratford, Wallaceburg, Welland, Windsor, Wingham, Woodstock
Corner Brook, N.F.
West Coast Bldg. Supplies
Glace Bay, N. S.
Thompson & Sutherland
Halifax, N. S.
Piersy Supplies, Ltd.
Montreal, Que.
Alex Bremner, Ltd.
St. John, N. B.
Murray & Gregory, Ltd.
Saskatoon, Sask.
City Lumber Yards

PRECISION
folding stairways
are available to established lumber dealers from the warehouse stocks of the following wholesale distributors.

PRYNE AND CO., INC.
POMONA, CALIF.

Albuquerque, N. M.
Gordon W. Laursen & Son
Atlanta, Ga.
Glenn H. Arnold
Baltimore, Md.
Henry G. Linthicum
Baton Rouge, La.
Gregory-Salisbury & Co.
Bronx, N. Y.
Albert Eisen
Calgary, Alta., Canada
Cochrane-Stephenson (Western) Ltd.
Chicago, Ill.
Donald J. Harper; Ralph A. Maynard
Clermont, Fla.
Preston E. Maynard
Dallas, Tex.
Burrus & Matthews
Denver, Colo.
Gaer, Florance & Associates
Edmonton, Alta., Canada
Cochrane-Stephenson (Western) Ltd.
Highland Park, Mich.
Francis R. Campbell
Houston, Tex.
Burrus & Matthews
Jackson, Miss.
Gregory-Salisbury & Co.
Kansas City, Mo.
William L. Lovell
Kenmore, N. Y.
Walter L. & Richard Huffman
Little Rock, Ark.
Gregory-Salisbury & Co.
Los Angeles, Cal.
Pryne and Co., Inc.
Memphis, Tenn.
Gregory-Salisbury & Co.
Monterrey, Mexico
Carlos D. Munoz; Martinez Y. Munoz
Mount Dora, Fla.
Ken H. Hill
Mount Prospect, Ill.
Robert F. Gross
New Brunswick, N. J.
Leonard Sobo
New Orleans, La.
Gregory-Salisbury & Co.
Newark, N. J.
Ben Naderf
Newton Highlands, Mass.
Lester L. Ostrov
Pittsburgh, Pa.
Charles E. Bridge
Portland, Ore.
Warren H. Cress Co.
Rutherford, N. J.
Frank Heinze
St. Paul, Minn.
Building Products, Inc.
Salt Lake City, Utah
John W. Reynolds
San Francisco, Cal.
McMillen-Stanley Sales Corp.
Seattle, Wash.
Warren H. Cress Co.
Temple, Pa.
John D. Beidler
Toledo, Ohio
Thomas B. Brigham
Toronto, Ont., Canada
Pryne & Co. of Canada Ltd.
Upper Darby, Pa.
James F. Walker
Vancouver, B. C., Canada
Cochrane-Stephenson (Western) Ltd.
Webster Groves, Mo.
Paul S. Pilcher
Winnipeg, Man., Canada
Cochrane-Stephenson (Western) Ltd.

R.O.W. SALES CO.
FERNDALE, MICH.

Amarillo, Tex.
Kritzer Supply Co.
Arlington, Va.
Dealers Warehouse Supply Co., Inc.
Baltimore, Md.
Dealers Warehouse Supply Co., Inc.
Billings, Mont.
Western Builders
Binghamton, N. Y.
A. Roberson & Son, Inc.
Buffalo, N. Y.
Whitmer-Jackson Co., Inc.
Boise, Idaho
Boise Sash & Door, Inc.
Bradenton, Fla.
V. E. Anderson Mfg. Co., Inc.
Calgary, Alberta, Canada
Calgary Sash & Door Co.; Cushing Mills, Ltd.
Fresno, Cal.
California Builders Supply, Inc.
Grand Island, Neb.
The Sethman Co.
Grand Rapids, Mich.
Porter-Hadley Co.
Great Falls, Mont.
Falls Window & Cabinet Shop
Houston, Tex.
Southwest Sash & Door Co.
Idaho Falls, Idaho
Johnson Bros. Planing Mill Co.
Joliet, Ill.
R.O.W. Window Co.
Kansas City, Mo.
Martin Material Co.
Kirkland, Wash.
Acme Millwork Co.

REMOVABLE R·O·W WOOD WINDOWS

R·O·W Windows are handled by *nearly all* lumber dealers. If your favorite dealer does not stock them, write the nearest authorized R·O·W Manufacturing Distributor listed below:

Canton, Ohio
Mahoney Sash & Door Co.
Charlotte, N. C.
Miller Millwork Corp.
Cheyenne, Wyo.
Fowler & Peth
Corpus Christi, Tex.
H. E. Woodruff Co.
Cranbrook, B. C., Canada
Cranbrook Sash & Door Co.
Dallas, Tex.
Lumbermen's Sash & Door Co.
Denver, Colo.
Lumber Dealers, Inc.
Edmonton, Alberta, Canada
Hayward Building Supplies, Ltd.
Flint, Mich.
Flint Sash & Door Co., Inc.
Los Angeles, Cal.
T. M. Cobb Co.
Merrill, Wis.
Wisconsin Window Unit Co.
Minneapolis, Minn.
Andrew A. Kindem & Sons, Inc.
Minot, N. D.
Jack R. Kinnard & Co.
Missoula, Mont.
Interstate Lumber Co.
Norfolk, Va.
Dalton-Bundy Lumber Co., Inc.
North Bergen, N. J.
General Woodcraft Co., Inc.
North Little Rock, Ark.
Central R.O.W. Distributors of Arkansas

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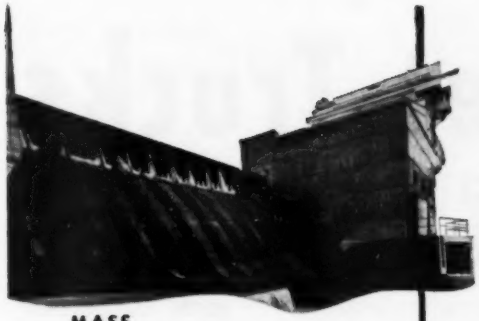
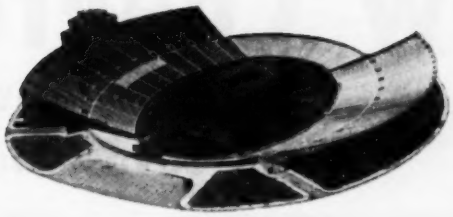
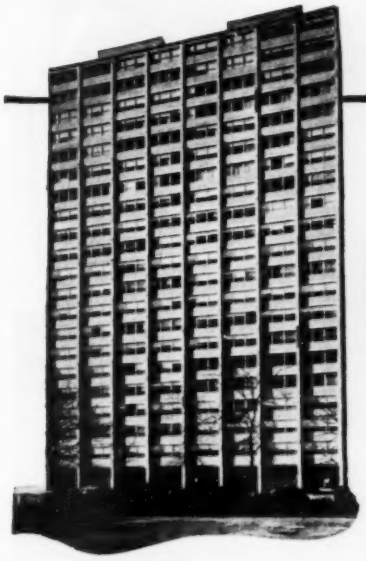


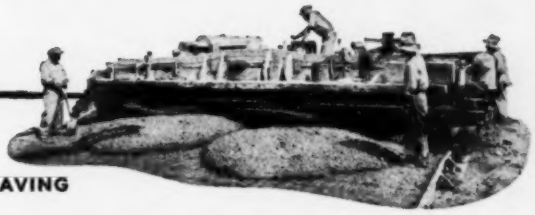
MASS

STRUCTURAL





ARCHITECTURAL



PAVING

WHATEVER THE JOB...

Better concrete at no extra cost made with DURAPLASTIC*

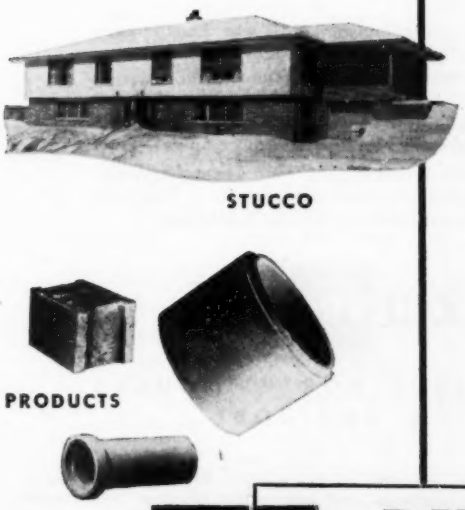
WHEN YOU FIND that one cement makes better concrete for everything from a modern superhighway to a drain tile, you can readily understand the growing trend to *specify* it. Atlas Duraplastic makes concrete more durable and improves surface appearance as well. And there are mighty good reasons why this is so.

Duraplastic is the original air-entraining portland cement. It requires less mixing water for a given slump. Too, it minimizes water gain and segregation. This gives increased resistance to effects of freezing-thawing weather, and in paving helps avert the scaling action of de-icing salts.

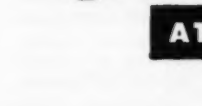
You'll especially like the on-the-job advantages of a Duraplastic mix. Construction men find the greater plasticity aids proper placement. Highway builders have learned that less mixing water and less bleeding permit finishing closer to the paver, earlier protection for curing. Products manufacturers report less breakage of green products.

You can have these advantages simply by specifying Atlas Duraplastic. It costs *not one penny more than regular cement.* No extra bother . . . just ordinary good care and procedure. Complies fully with ASTM and Federal Specifications. For more information, write Universal Atlas Cement Company (United States Steel Corporation Subsidiary), 100 Park Avenue, New York 17, N. Y.

*"*Duraplastic*" *is the registered trade mark of the air-entraining portland cement manufactured by Universal Atlas Cement Company.*



PRODUCTS



ATLAS®

DURAPLASTIC

AIR-ENTRAINING PORTLAND CEMENT

AB-D-142R

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New Chevrolet Trucks

deliver hour-saving power that saves you money, too!

New Chevrolet trucks bring you great new engine power in every model—from light-duty pickups to heavy-duty tractors. And this new power means important savings of both time and money on the job!

YOU SAVE TIME WITH GREATER SAFETY

That's because new Chevrolet trucks permit you to maintain faster schedules *without* driving at higher maximum road speeds. Thanks to greatly increased acceleration and hill-climbing ability, you can save time where it counts. Instead of trying to make up for lost time, you actually cut down the time lost at traffic lights and on steep grades.

YOU SAVE PLENTY ON OPERATING COSTS

New Chevrolet trucks bring you high-compression power that saves you money every mile. All three great engines—the "Thriftmaster 235," the "Loadmaster 235" and the "Jobmaster 261"* deliver greater horsepower *plus* increased operating economy. In addition, the mighty "Jobmaster 261" engine reduces the need for operating in low gears on heavy-duty jobs. As a result, you shift gears less . . . save more on gas.

Now's a good time to see your Chevrolet dealer about a time-saving, money-saving truck. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

CHEVROLET

MOST TRUSTWORTHY TRUCKS ON ANY JOB!

CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

THREE GREAT ENGINES—The new "Jobmaster 261" engine* for extra heavy hauling. The "Thriftmaster 235" or "Loadmaster 235" for light-, medium- and heavy-duty hauling. **NEW TRUCK HYDRA-MATIC TRANSMISSION***—offered on ½-, ¾- and 1-ton models. Heavy-Duty **SYNCHRO-MESH TRANSMISSION**—for fast, smooth shifting. **DIAPHRAGM SPRING CLUTCH**—improved-action engagement. **HYPOID REAR AXLE**—for longer life on all models. **TORQUE-ACTION BRAKES**—on all wheels on light- and medium-duty models. **TWIN-ACTION REAR WHEEL BRAKES**—on heavy-duty models. **DUAL-SHOE PARKING BRAKE**—greater holding ability on heavy-duty models. **NEW RIDE CONTROL SEAT***—eliminates back-rubbing. **NEW, LARGER UNIT-DESIGNED PICKUP AND PLATFORM STAKE BODIES**—give increased load space. **COMFORTMASTER CAB**—offers greater comfort, convenience and safety. **PANORAMIC WINDSHIELD**—for increased driver vision. **WIDE-BASE WHEELS**—for increased tire mileage. **BALL-GEAR STEERING**—easier, safer handling. **ADVANCE-DESIGN STYLING**—rugged, handsome appearance.

**Optional at extra cost. Ride Control Seat is available on all cab models, "Jobmaster 261" engine on 2-ton models, truck Hydra-Matic transmission on ½-, ¾- and 1-ton models.*

R.O.W. SALES, cont'd.

Norwood, Ohio
R.O.W. Whse. Distributors, Inc.
Oklahoma City, Okla.
Lumbermen's Supply Co.
Owensboro, Ky.
V. E. Anderson Mfg. Co., Inc.
Pittsburgh, Pa.
Adelman Lumber Co.
Richmond, Cal.
California Builders Supply, Inc.
Rochester, N. Y.
Whitmer-Jackson Co., Inc.
Rocky Mount, Va.
R.O.W. Distributors
Royal Oak, Mich.
Royal Oak Whse. Co.
Sacramento, Cal.
California Builders Supply, Inc.
Saginaw, Mich.
Flint Sash & Door Co., Inc.
St. Louis, Mo.
Imse-Schilling Sash & Door Co.
Salt Lake City, Utah
R. W. Frank & Co.
San Diego, Cal.
T. M. Cobb Co.
Spokane, Wash.
Spokane Sash & Door Co.
Stellarton, Nova Scotia, Canada
D. Porter & Son
Temple, Tex.
Chapik Wood Mfg. Co., Inc.
Toledo, Ohio
Fabrow Mfg., Inc.
Vancouver, B. C., Canada
Mt. Pleasant Sash & Door Co.
Watertown, S. D.
Watertown Sash & Door Co.
Westville, N. J.
Johnson & Wimsatt, Inc.

RESOLITE CORP.
ZELIENOPLE, PA.

Albuquerque, N. M.
Jay Grear, Inc.
Atlanta, Ga.
Asbestos Engineering, Inc.
Austin, Tex.
Cen-Tex Supply Co., Inc.
Baltimore, Md.
Lasting Prods. Co.
Bethlehem, Pa.
Morris Black & Sons
Borger, Tex.
Standard Asbestos Mfg. & Insulating Co.
Boston, Mass.
Parry Sales Co.
Buffalo, N. Y.
Milton O. Crockett Co.
Charleston, W. Va.
West Virginia Steel Corp.
Charlotte, N. C.
Household Distributors
Mobile, Ala.
National Home Insulating Co.
Montreal, Quebec, Canada
Bain & Dawes, Ltd.
New Orleans, La.
Childress & Hawk Co.
New York, N. Y.
Vargish & Co., Inc.
Norfolk, Va.
Globe Iron Construction Co.
Oakland, Cal.
Western Asbestos Supply Co.
Oklahoma City, Okla.
Standard Asbestos Mfg. & Insulating Co.
Orlando, Fla.
Acme Glass Co.
Peoria, Ill.
Lucas Sales Co.
Philadelphia, Pa.
Harold N. Davis Co.

Full Information & Prompt Service on RESOLITE

Translucent Structural Panels of Fiberglas-reinforced polyester resins for partitions, patio covers, carports, awnings and other uses, are yours upon inquiry to your nearest distributor. Or you may write Resolite Corp., Zelienople, Pa.

Chicago, Ill.
E. J. Sheehan Associates
Cincinnati, Ohio
J. E. Barron & Associates
Cleveland, Ohio
Industrial Wholesale Lumber Co.
Dallas, Tex.
Gambrell & Co.
Denver, Colo.
R. P. M. Corp.
Detroit, Mich.
Carl F. Beckwith & Son
East St. Louis, Ill.
O'Neil Lumber Co.
Fresno, Cal.
Western Asbestos Supply Co.
Honolulu, Hawaii
American Factors, Ltd.
Houston, Tex.
Standard Asbestos Mfg. & Insulating Co.
Indianapolis, Ind.
Tanner & Co.
Jacksonville, Fla.
W. A. Brooke Co.
Joplin, Mo.
Joplin Cement Co.
Kansas City, Mo.
Standard Asbestos Mfg. & Insulating Co.
Knoxville, Tenn.
Dempster Bros., Inc.
Little Rock, Ark.
Darragh Co.
Lynwood, Cal.
Translucent Materials Co.
Memphis, Tenn.
Metal Rolling, Inc.
Miami, Fla.
H. J. Heckler
Phoenix, Ariz.
Pratt-Gilbert Hdwe. Co.
Pittsburgh, Pa.
Elwin G. Smith & Co.
Portland, Ore.
Masons Supply Co.
Rochester, N. Y.
W. J. Decker, Inc.
Sacramento, Cal.
Western Asbestos Supply Co.
St. Paul, Minn.
MacArthur Co.
St. Petersburg, Fla.
Neco Sales
San Francisco, Cal.
Western Asbestos Supply Co.
San Jose, Cal.
Western Asbestos Supply Co.
Scranton, Pa.
Twining's Top Shop
Seattle, Wash.
Belknap Glass Co.
Spokane, Wash.
Mansur Materials Co.
Springfield, Mo.
Southwestern Insulation & Materials Co.
Stockton, Cal.
Western Asbestos Supply Co.
Taylors, S. C.
Greenville Steel & Foundry Co., Inc.
Toledo, Ohio
Elwin G. Smith & Co.
Toronto, Ontario, Canada
Asbestos Building Supply, Ltd.
Williamsport, Pa.
Lundy Distributing Co.

REZNOR MANUFACTURING CO.
MERCER, PA.

Branches in These Cities:

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Buffalo, N. Y.
Chicago, Ill.
Cincinnati, Ohio
Clearwater, Fla.
Cleveland, Ohio
Columbus, Ohio
Dallas, Tex.
Denver, Colo.
Des Moines, Iowa
Detroit, Mich.
Houston, Tex.
Indianapolis, Ind.
Kansas City, Mo.
Little Rock, Ark.
Los Angeles, Cal.
Milan, Tenn.
New York, N. Y.
Norfolk, Va.
Oklahoma City, Okla.
Philadelphia, Pa.
Pittsburgh, Pa.
Rock Island, Ill.
Salt Lake City, Utah
San Francisco, Cal.
Sandy Lake, Pa.
Seattle, Wash.
St. Louis, Mo.
St. Paul, Minn.
Washington, D. C.
Wyckoff, N. J.

REZNOR
DISTRICT OFFICES

• call for the name of your local distributor

ROBERTS-GORDON APPLIANCE CORP.
BUFFALO, N. Y.

Birmingham, Ala.
S. G. Bratton Sales Engrs. Ltd.
Boston, Mass.
Skinner & Co.
Buffalo, N. Y.
W. A. Hammond, Inc.
Chicago, Ill.
Rund-Humphrey Sales Co.
Cincinnati, Ohio
F. J. Scull
Cleveland, Ohio
R. E. Landers
Detroit, Mich.
R. M. Snypp, Inc.
Greensboro, N. C.
Dean Wagoner
Grimsby Beach, Ontario, Canada
Giuntz & Sterling
Indianapolis, Ind.
Heating Engr. & Sales Co.
Levittown, Pa.
Robert Soroka
Milwaukee, Wis.
J. H. Fagin Co.
Monett, Mo.
H. L. Siebenthaler
New York, N. Y.
J. C. Fullerton
Omaha, Neb.
Midwest Utility Service Co.
Phoenix, Ariz.
Glenn Hutton
Pittsburgh, Pa.
Jarrett Equipment Co.
Portland, Ore.
Alvin R. Bravender Co.; Howard A. Weller Co.
St. Louis, Mo.
Ray Roberts, Inc.
Salt Lake City, Utah
W. L. Peterson
San Antonio, Tex.
Gene Brown
Washington, D. C.
Robert H. Ewing
Wheeling, W. Va.
R. George Wallace

RODDIS PLYWOOD CORP.
MARSHFIELD, WIS.

Allentown, Pa.
Lehigh Lumber Co.
Alton, Ill.
Ginter-Wardein
Ann Arbor, Mich.
Fingerle Lumber Co.
Appleton, Wis.
Wikelund Wholesale
Bellefonte, Pa.
M. L. Claster & Sons, Inc.
Biddeford, Me.
Diamond Match Co.
Bridgeport, Conn.
Fairfield Lumber
Brooklyn, N. Y.
Feldman Lumber Co.; Tuinoy Lumber Co.
Bronx, N. Y.
Claremont Lumber Co.
Charlotte, N. C.
Wearn Lumber Co.
Chicago, Ill.
Hartmann-Sanders Co.; Hill-Behan Lumber Co.; Illinois Interior Finish Co.; Independent Builders Supply Co.; Mayfair Lumber Co.; O. V. Palmquist & Sons Co.
Clayton, Mo.
Clayton Lumber Co.
Cleveland, Ohio
Big Four Lumber Co.; Rock Island Lumber Co.; South Euclid Lumber Co.
Columbia, S. C.
Columbia Lumber & Mfg. Co.
Danville, Ill.
Elliott Lumber Co.
Davenport, Iowa
Mueller Lumber Co.
Detroit, Mich.
Restrick Lumber Co.
Elgin, Ill.
Rinehimer Bros. Mfg. Co.
Evansville, Ind.
Cottage Building Co.
Fergus Falls, Minn.
Northwestern Sash & Door Co.
Ferguson, Mo.
C. J. Harris Lumber Co.
Fernwood, Lansdowne, Pa.
J. Frank Esham & Son
Flint, Mich.
Flint Lumber Co.
Franklin Square, L. I. N.Y.
Franklin Square Lumber Co.
Fresno, Cal.
Hollenbeck-Bush Planing Mill
Greensboro, N. C.
Builders Products Co.
Greenville, S. C.
W. H. McCauley & Sons
Hammond, Ind.
Vanderby Screen Co.
Hartford City, Ind.
Willman Lumber Co.
Hartford, Conn.
Hartford Builders & Finish Co.
Hingham, Mass.
Hingham Lumber Co., Inc.
Holyoke, Mass.
Merrick Lumber Co.
Huntington, L. I., N. Y.
Nassau Suffolk Lumber & Supply Corp.
Lancaster, Pa.
Martin Millwork Corp.
Lansing, Mich.
Duncan Lumber Co.
Lexington, Ky.
Savage Lumber Co.
Louisville, Ky.
Boland Maloney Lumber Co.; Kister Lumber Co.
Lowell, Mass.
Pratt & Forrest Co.
Lynbrook, L. I., N. Y.
Stienbrook Lumber Corp.
Madison, Wis.
Findorff Lumber & Supply
Malden, Mass.
Line Lumber Co., Inc.
Mamaroneck, N. Y.
Mamaroneck Lumber Co.
Marshfield, Wis.
Ebbe Co.
Miami, Fla.
Bailey Lumber Yards; Renuart Lumber Yards
Milwaukee, Wis.
Bliffert Lumber Co.; Steinman Lumber Co.
Minneapolis, Minn.
Plywood Super Market
Morristown, N. J.
C. W. Ennis & Co.
Nashville, Tenn.
J. E. Chilton Millwork & Lumber Co.
Newark, N. J.
Reiss Bros., Inc.
New Rochelle, N. Y.
Bender Bldg. Materials
New York, N. Y.
Fitzgibbon Lumber Co.
Oakland, Cal.
Blackman-Anderson Lumber Co.; Oakland Lumber Co.
Orlando, Fla.
Thomas Lumber Co., N. C.
Ottawa, Ill.
Sanders Bros. Co.
Ozone Park, N. Y.
Pisnoy Lumber & Trim
Paramus, N. J.
Larkin Lumber Co.
Philadelphia, Pa.
Penn Lumber & Bldg. Supply Co.; Scheitz Lumber Co.
Plainfield, N. J.
J. D. Loizeaux Lumber Co.
Portland, Me.
N. T. Fox Co., Inc.
Providence, R. I.
Harris Lumber Co., Inc.
Quincy, Mass.
L. Grossman & Sons, Inc.
Raleigh, N. C.
Carolina Builders Corp.
Red Bank, N. J.
Buchanon & Smock
Richmond, Va.
Miller Mfg. Co.
Riverhead, L. I., N. Y.
Mid-Island Lumber & Supply Co.
Roanoke, Va.
Valley Lumber Co.
Rochester, N. Y.
Morse Lumber Co.
Rock Island, Ill.
Rock Island Lumber Co.
Roslyn, L. I., N. Y.
Cameron Supply Co., Inc.
St. Louis, Mo.
Beyers Lumber Co.; Great Central Lumber Co.; Hampton Lumber & Supply Co.
St. Paul, Minn.
Villaume Box & Lumber Co.
Sarasota, Fla.
Sheppard Lumber Co.
Sandusky, Ohio
Erie County Lumber Co.
San Francisco, Cal.
Goodman Lumber Co.
San Jose, Cal.
Chase Lumber Co.
Stockton, Cal.
Union Planing Mill
South Bend, Ind.
Eckler Lumber Co.; Indiana Lumber & Mfg. Co.
South Boston, Mass.
J. C. Murphy Lumber Co.
Syracuse, N. Y.
Erie Blvd. Bldg. Supply
Toledo, Ohio
Timeriane Lumb.r Co.
Trenton, N. J.
Bailey Millwork
Turlock, Cal.
J. C. Martinez Co.
Wayne, Mich.
Hilliard & Reiser Lumber Co.
West Hempstead, L. I., N. Y.
Lakeview Lumber Co.
West Palm Beach, Fla.
Tylanders, Inc.
Worcester, Mass.
W. H. Sawyer Lumber Co.
Youngstown, Ohio
Acorn Lumber & Supply Co.; Scheetz Lumber Co.

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CRAFTWALL
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Genuine Hardwoods

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All pre-finished
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Halteman Co.
Altoona, Pa.
Alta Glass Co.
Amarillo, Tex.
Jenkins Brick & Supply Co.
Atlanta, Ga.
Lawco Building Materials Co.
Baltimore, Md.
William C. Kane; Pella Sales Co.
Baton Rouge, La.
Ronald A. Coco, Inc.
Binghamton, N. Y.
C. Y. Cushman
Birmingham, Ala.
Building Specialties Co.; Wilson Door & Window Supply Co.
Boston, Mass.
Robert F. Crane, Inc.
Buffalo, N. Y.
A. O. Stilwell Co., Inc.
Canton, Ohio
Pella Window & Door Co.
Cedar Rapids, Iowa
Pella Rolscreen Co.
Champaign, Ill.
Pella Sales Co.
Chicago, Ill.
Rolscreen Co.
Cincinnati, Ohio
N.W. & R.A. Richardson
Clarksburg, W. Va.
Builders' Center
Cleveland, Ohio
Gunton Co.
Columbia, S. C.
Edward R. Bass
Columbus, Ohio
H. S. Sterner Co.
Corpus Christi, Tex.
Howard Co.
Corpus Christi, Tex.
Howard Co.
Cuyahoga Falls, Ohio
Pella Products Co.
Dallas, Tex.
K. & M Builders Supply, Inc.
Dayton, Ohio
Pella Sales Co.
Decatur, Ill.
Brinkoetter Tiling Co.
Denver, Colo.
Aero Supply Co.
Des Moines, Iowa
J. Earl Hammer
Detroit, Mich.
Allied Home Equipment Co.
Erie, Pa.
E. E. Austin Lumber Corp.
Evansville, Ind.
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Fargo, N. D.
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Supply Service, Inc.
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McComb Window & Door Co.
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Continued next page

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C. E. Hamlin
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Mauret Co., Inc.
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Pella Products
St. Louis, Mo.
Ed. A. Johnson
Salt Lake City, Utah
Joel P. Paulson & Co.
San Angelo, Tex.
Angelo Glass & Mirror Co.
San Antonio, Tex.
Harry C. Kirby Co.
San Diego, Cal.
Maloney Specialties, Inc.
San Francisco, Cal.
Ralph, Mills & Co.
Scranton, Pa.
Strutin & Co.
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Pella Products
Shreveport, La.
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Sioux City, Iowa
Eugene F. Wilsey Co.
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Oklahoma City, Okla.
Bissell Builders Supply Co.
Omaha, Neb.
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Ottumwa, Iowa
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Rolscreen Co.
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Beginning on page 497 you will find an Alphabetical List of Brand Names of Products and Equipment advertised in this Catalog Directory. The manufacturer's name appears after each brand name. This list will help you locate manufacturers of products that you know by their trade names, rather than names of the concerns that produce them.

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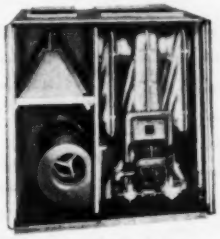

Model 50 Deluxe. Shown at right with front panels removed

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Niagara furnaces deliver heat in its most pleasing, comfortable form — warm air in gentle motion . . . ACTIVATED heat . . . LIVE heat!

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Flint, Mich. Schafer Brick & Supply Co.
Floral Park, L. I., N. Y. Home Crafts, Inc.
Fort Dodge, Iowa Mid-Continent Lumber Dealers Supply Inc.
Fort Wayne, Ind. Great Lakes Distributing Corp.; Tri-State Heating Supply Co.
Gary, Ind. G. W. Berkheimer Co.
Glen Ellyn, Ill. Illinois Furnace Supply Co.
Grand Forks, N. D. Dinnie Builders Supply Co.
Grand Island, Neb. Grand Island Furnace & Supply Co.
Grand Rapids, Mich. Evans & Retting Lumber Co.; Grand Furnace Co.
Great Falls, Mont. Building Service, Inc.
Green Bay, Wis. Wisconsin Heating Distributors
Hammond, Ind. Beckman Supply Co.
Harrisburg, Pa. Peirce-Phelps, Inc.
Hartford, Conn. Herrick Co.
Indianapolis, Ind. Central Supply Co.; Indiana Distributing Co.; Spiekelmier Co.; Wright-Bachman Co.
Jackson, Mich. Central Michigan Building Supply, Inc.
Jacksonville, Fla. Horne-Wilson, Inc.; G. Fetter Pathoff Co. Inc.
Joliet, Ill. Alexander Warehouse & Sales Co.
Kansas City, Mo. Excelsior Heating Supply Division
Knoxville, Tenn. Tennessee Mill & Mine Supply Co
Libertyville, Ill. Woolf Distributing Co. Inc.
Logansport, Ind. Great Lakes Distributing Corp.
Lombard, Ill. Steel Products Supply Co.
Mansfield, Ohio Earnshaw Sheet Metal Co.
Mason City, Iowa Nichols Wire & Aluminum Co.
Memphis, Tenn. Fischer Lime & Cement Co
Milwaukee, Wis. Wisconsin Heating Distributors
Minneapolis, Minn. Globe, Inc.
Moline, Ill. Domestic Equipment Co.
Newark, N. J. Kanter Brothers, Inc.; Tomkins Brothers
Norfolk, Va. Crane Co.
North Bessemer, Pa. Glenn Plumbing & Heating Supply
Odessa, N. Y. Cotton-Hanlon, Inc
Omaha, Neb. Roberts Supply Co.; Standard Furnace Supply Co., Ltd
Orlando, Fla. Timber Products, Co
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Paducah, Ky. Ohio Valley Supply Co Inc.
Pensacola, Fla. Cary & Co., Inc.
Peoria, Ill. Alexander Warehouse & Sales Co.; American Engineering Service
Philadelphia, Pa. Peirce-Phelps, Inc
Pierre, S. D. Schmit Sheet Metal Shop
Pittsburgh, Pa. A. H. Johnson Co.
Portland, Ore. Mercer Steel Company Inc
Raleigh, N. C. The Standard Supply Co Inc.
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Rock Island, Ill. Armstrong Furnace Supply Co
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Saginaw, Mich. Sampler Wholesale Supply Co.; United Wholesalers, Inc.
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St. Paul, Minn. MacArthur Co.
Salt Lake City, Utah Ashton Heating & Air Conditioning Co.
Seattle, Wash. Elliott Bay Lumber Co.; McPherson Furnace & Equipment Co.
Sheboygan Falls, Wis. Falls Dealer Supply Co.
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South Boston, Mass. Herrick Co.
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Tallahassee, Fla. Horne-Wilson, Inc.
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Continued next page

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V

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Hollywood, Cal.
Hollywood Refrigeration
Honolulu, Hawaii
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Finger Furnace Co.; D. V. Jolley
Indianapolis, Ind.
Indiana Dist. Co.
Jacksonville, Fla.
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Lee Lambert
Knoxville, Tenn.
Square Supply Co.
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Louis Jolley
Montreal, Que., Canada
Canadian Welbilt
New Bedford, Mass.
Ideal Sales Co.
New Orleans, La.
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Qualified Stove Co.
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Oakland Sheet Metal
Philadelphia, Pa.
Frelyn Stove Corp.
Pittsburgh, Pa.
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Gas Heat Inc.
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Reliable Furnace Co.
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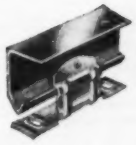
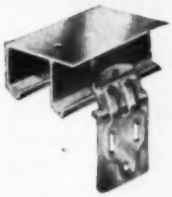


70-1H HANGER
on 70-1T Track
Top-Mounted Non-Adjustable. 1¼" Headroom. For ¾" to 1⅜" thick doors—other than plywood.
(711 Series)



70-2H HANGER
on 70-2T Track
Side-Mounted Adjustable. 1" Headroom Minimum. For ¾" thick plywood doors.
(722 Series)

Convenient, complete Packaged Set, hardware and track, only $2.70 list
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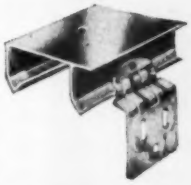

70-3H HANGER
on 70-3T Track
Side-Mounted Adjustable. 1" Headroom Minimum. For 1⅜" thick doors.
(733 Series)

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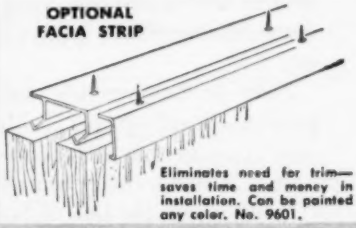
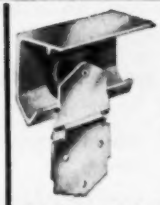


Eliminates need for trim—saves time and money in installation. Can be painted any color. No. 9601.

CHAMPION Series for Doors up to 100 Lbs.

FW-6AH HANGER
on FW-6TO Track
Top-Mounted, Adjustable. 2⅝" Headroom Minimum. For ¾" to 1⅜" thick doors—other than plywood.

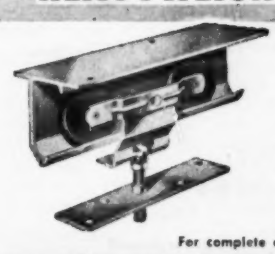
FW-6H HANGER
on FW-6-TC Track
Top-Mounted Non-Adjustable. 2⅝" Headroom. For ¾" to 1¾" thick doors—other than plywood.



FW-6PH HANGER
on FW-6TO Track
Side-Mounted, Non-Adjustable. 2 1/16" Headroom. For ¾" and ⅞" thick plywood doors.

Side-mounted single track FW-6TO also available, as well as Double Tracks for 1⅛" doors (FW-6DT) and for 1⅜" doors (FW-6DTL)

HEAVYWEIGHT for Doors up to 200 Lbs.



200-4H HANGER
on 200-1T Track
Top-Mounted Adjustable. 2⅝" Headroom Minimum. For ¾" to 1¾" thick doors.

- Twin rollers of durable Formica assure continued smooth rolling under heavy loads
- Needle bearings
- Cadmium-plated ribbed steel hangers
- One-inch vertical adjustment
- Top Mounted

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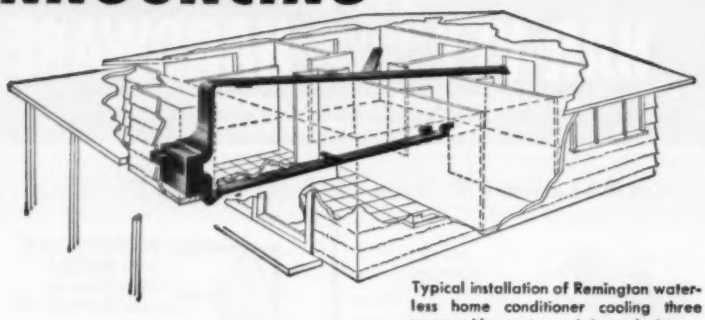

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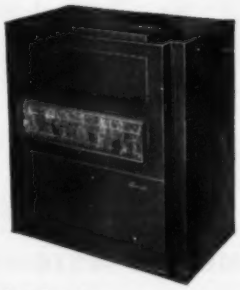

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Jansson's Carpet Shop
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Lubbock, Tex.
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Insulation Industries, Ltd.
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Vermiculite Products Corp.
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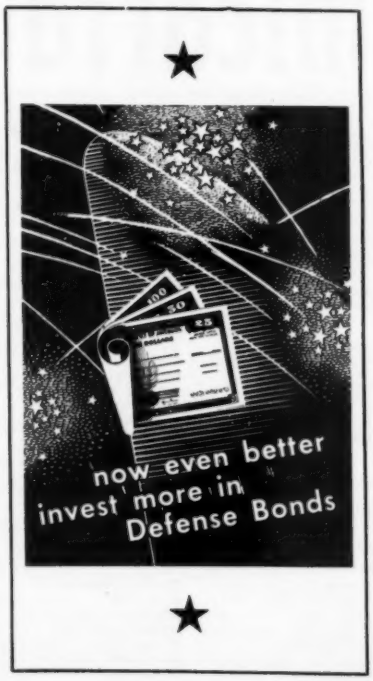
Zonolite Co.
Winnipeg, Man., Canada
Insulation Industries, Ltd.



ADVERTISERS
IN THIS ISSUE

A

A & F Tileboard Co. 297
Adams Rite Manufacturing Co. 288
Airtemp Division Chrysler Corporation 329
Alliance Ware Inc. 525
Allith Prouty, Inc. 194
Allmetal Weatherstrip Company 284
Aluminum Railing Co. 426
Aluminum Window Manufacturers Association 70, 71
American Bamboo Co. 221
American Brass Company 118
American Builder 561, 567
American Cabinet Hardware Corp. 296, 372
American Cement Products 511
American Device Mfg. Co. 380
American Floor Surfacing Machine Co., The 94
American Hardware Corp., The, Russell & Erwin Division 139
American Machine & Foundry Company, The, DeWalt, Inc. 177
American Radiator & Standard Sanitary Corp., (Plumbing & Radiator Heating Division) 277
American Screen Products Co. 565
American Sisalkraft Corporation 315
American Sta-Dri Company 389
American Telephone & Telegraph Co. 13
American Welding & Manufacturing Company, The 294, 295
Anderson Corporation 162, 163
Angier Corp. 57
Armstrong Cork Company 60
Arrow Fastener Co., Inc. 475
Arrow-Hart & Hegeman Electric Co. 309
Arrow Lock Company 349
Artcraft Ornamental Iron Co. 46
Associated Plywood Mills, Inc. 193
Atlas Electric Products Co. 454
Atlas Plywood Corporation 514

B

Baltz & Company, Inc., Robert N. 465
Barber-Colman Co. 473
Bell & Gossett Company 24
Belsaw Machinery Co. 452
Bendix Mfg. Co. 368
Berger & Sons, Inc., C. L. 375
Besser Manufacturing Company 234
Bessler Disappearing Stairway Co., The 354
Better Homes & Gardens 20
Bianco Manufacturing Company 306
Biersach & Niedermeyer Co. 321
Bilco Co., The 521
Binswanger & Co. 158
Bird & Son, Inc. ..... Cover 3
Black & Decker Mfg. Co. 208, 209
Bostitch 213, 214
Bostrom-Brady Mfg. Co. 48
Bowser Inc., Incineration Division 96
Briggs Manufacturing Co. 182
Brown & Co., Inc. Geo. C. 185
Brown-Graves Co. 136, 137
Bruce Co., E. L. 179
Bryant Heater Division 166
Bush Manufacturing Co., The 230
Builders Manufacturing Co. 22

C

Calbar Paint & Varnish Co. 281
Calder Manufacturing Co. 411
Carey Mfg. Co., Philip, The 338
Carlson & Sullivan, Inc. 426
Carr, Adams & Collier Co. 312, 313
Ceco Steel Products Corporation 342, 343
Cedar Rapids Block Company, Division of, Dur-O-Wal 452
Celotex Corporation, The 150, 151
Central Metal Strip Co. 440
Certain-Teed Products Corporation 301
Chattanooga Royal Co. 395
Chemold Company 380
Chevrolet Division, General Motors 558
Cincinnati Iron Fence Co. 368
Clipper Manufacturing Co. 143
Coffman Co., Inc., R. G. 393
Coleman Company, Inc., The 286, 287
Colorcrete Industries, Inc. 368
Colpaert Homes Inc. 93
Columbia Mills, Inc. 437
Condensation Engineering Corporation 223
Congoleum Nairn Inc. 73
Connor Lumber & Land Co. 533
Consolidated General Products 132
Construction Machinery Company 62, 493
Continental Screen Company, Wabash Screen Door Co. 529
Crawford Door Company ..... Cover 2
Curtis Companies Service Bureau 269

D

Detroit Steel Products Co. 250
De Walt, Inc., American Machine & Foundry Company, The 177
Dexter Lock Company, A Subsidiary of National Brass Company 291
Dodge Corporation, F. W. 97
Dodge Div. of Chrysler 180
Douglas Fir Plywood Association 111
Drywall Trim, Inc. 63
Dunkirk Radiator Corporation 360
Dur-O-Wal, Division of Cedar Rapids Block Company 452

E

Eastern Machine Products Co. 276
Eljer Co. 38
Evans & Co. 212
Eveready Briksaw Company 307
Ez-Way Sales, Inc. 483

F

Fair Lumber Co., D. L. 115
Fasco Industries, Inc. 519
Fastener Corp. 204
Fiat Metal Manufacturing Company 545
Fir Door Institute 258
Fleet of America, Inc. 110
Flintkote Company, The 195
Flynn Manufacturing Co., Michael 379
Follansbee Steel Corporation 181
Ford Motor Company, Tractor & Implement Division 311
Forest City Foundries Company, The 561
Formica Company, The 69
Frantz Manufacturing Company 327

G

Garlinghouse Co., L. F., The, ... 25
Gate City Sash & Door Co. 55
Gates & Sons, Inc. 539
GBH-Way Homes, Inc. 154
General Bronze Corporation 283
General Door Manufacturing Co. 561
General Electric 109, 120, 121, 253, 386, 387, 547
General Plywood Corporation 563
General Portland Cement Co., Trinity Div. 255
General Products Company 302
Georgia-Pacific Plywood Company 98, 99
Gerwin Industries, Inc. Thermo-Base Division 223
Given Mfg. Co. 304
Goldblatt Tool Company 507
Goodyear 2
Grainger, Inc., W. W. 281
Grand Haven Stamped Products Co. 310
Grand Rapids Hardware Co. 375
Grant Pulley & Hardware Company 513
Greenlee Tool Co. 174
Gulf Steel & Wire Company 198

H

Hachmeister, Inc. 152, 496
Hager & Sons Hinge Mfg. Co., C. 37
Hamlin Products, Inc. 543
Hansen Mfg. Co., A. L. 194
Harbor Plywood Corporation 131
Hassall Inc., John 138, 254, 400
Heatilator Inc. 185, 449
Higgins Inc. 242
Holt Mfg. Co. 532
Homasote Company 232
Home of the Week Plan Service 46
Hook & Ackerman 447
Hope's Windows, Inc. 278
Howell Manufacturing Co., Inc. 302
Huck-Gerhardt Co. 532
Hunter Douglas Corp. 275
Hunter Fan and Ventilating Company 100

I

Incineration Division, Bowser, Inc. 96
Independent Lock Co., Lockwood Hardware Manufacturing Company 189
Infra Insulation, Inc. 65
Inland Steel Products Company 551
Insulite Division, Minnesota and Ontario Paper Company 266, 267
Iron Fireman Manufacturing Co., SelecTemp Division 175
Ives, Co., H. B. 407

J

Jaeger Machine Company, The 549
J. M. J. Industries 12
Johns-Manville 247
Junior-Pro Products Co. 204, 310

K

Kaustine Company, Inc. ... 183
Keasbey & Mattison Company ... 53
Kennatrack Corporation ... 186
Kentile, Inc. ... 552
Kewanee Manufacturing Co. ... 91
Keystone Steel & Wire Company ... 218, 219
Kohler Co. ... 225
Kota Products, Inc. ... 321
Kwikset Sales and Service Company ... 1

L

Laboratory Equipment Corp. ... 62
Laclede Steel Company ... 459
Larsen Products Corp. ... 108
Lau Blower Co. ... 468, 469
Leonard Company, R. B. ... 487
Little, Burner Company, Inc., H. C. ... 260
Libbey-Owens-Ford Glass Company ... 144, 145
Lockwood Hardware Manufacturing Company ... 189
Lone Star Cement Corporation ... 9
Long-Bell Lumber Company, The ... 555
Louisville Cement Company, Inc. ... 200, 201
Lucke, Inc., William B. ... 56
Ludman Corp. ... 429

M

McCabe-Powers Auto Body Company ... 371
McKinney Manufacturing Company ... 130
Macklanburg-Duncan Co. ... 14, 15, 16, 17
Majestic Co., Inc., The ... 433
Mall Tool Company ... 48
Malta Manufacturing Company ... 135
Marsh Wall Products, Inc. ... 217
Masonite Corporation ... 155
Metal Crafters Products ... 485
Midcontinent Adhesive Company ... 205
Midget Louver Company ... 458
Milwaukee Electric Tool Co. ... 308
Milwaukee Flush Valve Co. ... 449
Minnesota & Ontario Paper Co., Insulite Division ... 266, 267
Miracle Adhesives Corp. ... 393
Modern Homes Corp. ... 187
Morrison Steel Products, Inc. ... 196, 197, 203
Mosley Electronics, Inc. ... 458
Moutile, Inc. ... 426
Mullins Manufacturing Corporation ... 337
Muncie Gear Works ... 45
Murray Corporation of America, The ... 285

N

National Aluminum Co. ... 485
National Electrical Manufacturers Association ... 103, 377
National Clay Pipe Manufacturers, Inc. ... 133
National Gypsum Company ... 420
National Homes Corporation ... 501
National Manufacturing Company ... Cover 4
National Oak Flooring Manufacturers' Association ... 248, 249
National Plastic Products Company ... 415
National Vanity Co. ... 68
New Castle Products ... 159, 224
Nicholls Manufacturing Co. ... 465
Nichols Wire & Aluminum Co. ... 90
Nixalite Company of America ... 491
Norman Products Company ... 92
Nu-Wall Mfg. Co. ... 66

O

Ohio Foundry & Manufacturing Co. ... 452
Ohio Hydrate & Supply Company ... 384
Olympic Stained Products Co. ... 539
One-Der Frame Corporation ... 507
Orangeburg Manufacturing Co. ... 495
Oregon Lumber Company ... 241
Overhead Door Corporation ... 534
Owens-Illinois Glass Company, Glass Block Division ... 40, 41

P

Pacific Lumber Company, The ... 147
Pearson Mfg. Co., O. ... 321
Perfection Stove Company ... 156
Per-Fit Products Corporation ... 124, 125
Perlite Institute ... 243
Perma-Jack Corporation ... 67
Peterson Products Company ... 199
Pittsburgh Plate Glass Co. ... 332, 333
Pootatuck Corp. ... 354
Porter-Cable Machine Co. ... 23, 439, 533
Powder Power Tool Corp. ... 345
Powernail Company ... 48
Precision Parts Corporation ... 270
Prefabricated Home Mfrs. Inst. ... 268
Price Fireplace Heater & Tank Corp. ... 184
Protection Products Mfg. Co. ... 176
Protectub, Inc. ... 62
Pryne & Co. ... 6

R

Ram Tool Corp. ... 254
Raynor Manufacturing Company ... 227
Ready Hung Door Corp. ... 51
Red Cedar Shingle Bureau ... 228
Red Devil Tools ... 108
Reflectal Corporation ... 192
Remington Air Conditioning Div. ... 566
Remington Arms Company, Inc. ... 445
Remington Rand ... 49
Republic Steel Corporation, Truscon Steel Division ... 422, 423
Republic Steel Kitchens ... 127
Resolite Corp. ... 32
Revere Copper and Brass Incorporated ... 527
Reynolds Metals Company ... 298, 299, 352, 353
Reznor Manufacturing Company ... 202
Rheem Manufacturing Company ... 61
Richards-Wilcox Mfg. Co. ... 401
Richmond Radiator Company ... 517
Rilco Laminated Products Inc. ... 305
Roberts-Gordon ... 483
Roddis Plywood Corporation ... 105
Rolscreen Company ... 403
Rowe Manufacturing Company ... 89
R.O.W. Sales Company ... 58, 59
Ruberoid Co., The ... 531
Rudiger-Lang Co. ... 522
Russell & Erwin Division, The American Hardware Corporation ... 139
Russell Company, F .C. ... 169

S

Saint Paul Corrugating Co. ... 50
St. Paul & Tacoma Lumber Co. ... 28
Sargent & Co. ... 113, 114
Saturday Evening Post, The ... 11
Scharf Mfg. Co., J. H. ... 247
Scott & Sons Co., O. M. ... 154
SelecTemp Division, Iron Fireman Manufacturing Co. ... 175
Servel, Inc. ... 273
Sharp's Manufacturing Co. ... 158
Shawnee Manufacturing Co. ... 302
Sheffield Doors Co. ... 457
Sherman Products, Inc. ... 542
Shower Enclosures, Inc. ... 417
Simonds Saw and Steel Co. ... 72
Simplex Level Co., Inc. ... 380
Skil Corporation ... 122, 123
Sonoco Products Company ... 259
Soss Manufacturing Company ... 222
Southern Plaswood Corporation ... 125
Southern Screw Company ... 454
Specialty Tool Manufacturers ... 138
Spotnails, Inc. ... 281
Stanley Works, The ... 239, 587
Sta-Tite, Inc. ... 354
Steel Scaffolding Company, Inc., The ... 252
Sterling Hardware Mfg. Co. ... 47
Sterling Paint & Varnish Co. ... 126
Superior Fireplace Co. ... 503
Symons Clamp & Manufacturing Company ... 509
Syntron Company ... 370

T

T & S Brass & Bronze Works, Inc. ... 255
Telechron Dept., General Electric ... 253
Thor Corporation ... 290
Thrush & Company, H. A. ... 233
Thyer Manufacturing Corp., The ... 106, 107
Tilemaster Corp., A-1 Plastic Molders, Inc. ... 43
Tilt-A-Door Corporation ... 134
Timber Engineering Company ... 475
Tradewind Motorfans, Inc. ... 199
Trinity Division, General Portland Cement Co. ... 255
Trumbull Components Dept., General Electric ... 237
Truscon Steel Division, Republic Steel Corporation ... 422, 423
Tuttle & Bailey Inc. ... 244

U

United States Plywood Corporation ... 4, 5, 322, 323, 364, 365
United States Steel Homes, Inc. ... 157
United Steel Fabricators, Inc. ... 521
Universal Atlas Cement Company ... 557
Universal-Rundle Corporation ... 347

V

Van Packer Corporation ... 170, 171
Vent-A-Hood ... 493
Vento Steel Products Co., Inc. ... 317
Vikon Tile Corporation ... 95
Vulcan Radiator Company, The ... 252

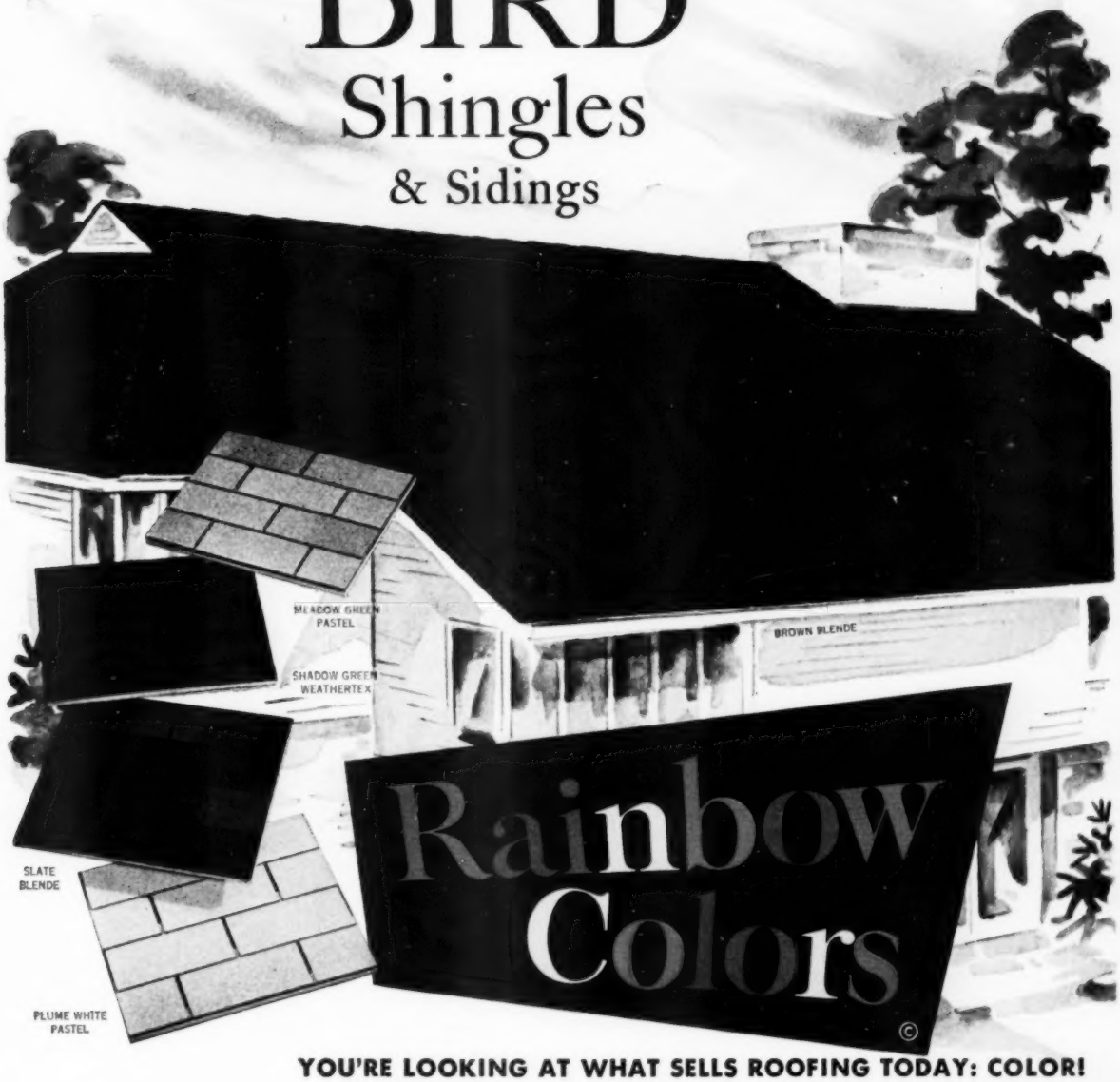
W

Wabash Screen Door Company, Continental Screen Company ... 529
Waco Mfg. Co. ... 465
Wagner Manufacturing Company ... 199
Ware Laboratories ... 289
Warren-Knight Co. ... 400
Weatherbest Corporation ... 202
Weatherproof Products Corp. ... 63
Welbilt Stone Co., Inc. ... 443
Western Lock Mfg. Co. ... 206
Western Pine Association ... 417
Westinghouse Electric Corporation ... 33-36, 292, 293
White Company, David ... 544
White Products Corporation ... 212
Wickwire Spencer Steel Division, Colorado Fuel & Iron Corporation ... 29
Williamson Heater Company, The ... 282
Wiremold Company, The ... 479
Woodall Industries Inc. ... 210
Woodward Iron Co. ... 231
Wright Manufacturing Company ... 264, 265

Z

Zonolite Company ... 51

BIRD
Shingles
& Sidings



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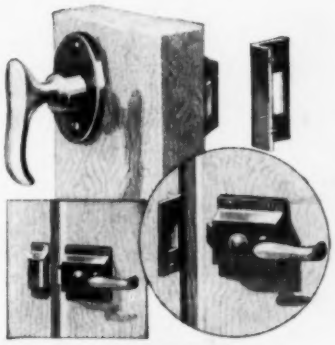

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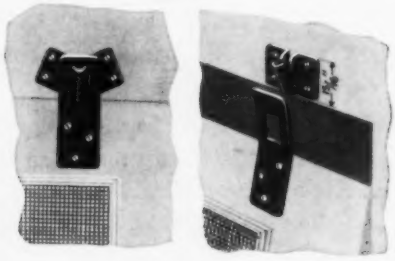

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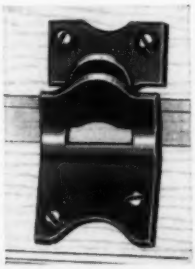

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